CONSTRUCTION NEWS

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RAILWAYS.

(Denotes that this work is advertised in Engineering News.)*

ARKANSAS.—The Meto & Arkansas Valley R. R. Co. filed articles of incorporation Oct. 1 and was granted a charter to complete the unfinished Meto Valley R. R. The incorporators are: H. N. Street, Argenta, Pres.; Charles Neimeyer, Little Rock, Secy.; W. M. Kavanaugh, Little Rock, Treas; S. M. Savage, Lonoke, Vice-Pres.; and D. Fred Walin, Lonoke. The charter authorizes the company to build the line from McCreanor Junction on the Rock Island R. R. in Lonoke County, south to Tomberlin. The company is authorized to build a line of not more than 25 miles in length. Eight miles of the road have already been built.

ATCHISON, TOPEKA & SANTA FE R. R.—Plans have been prepared for the elimination of the grade crossing at Douglas Ave., Wichita, Kan. C. A. Morse, Topeka, Kan., is Ch. Engr.

BOSTON & MAINE R. R.—The new owner of the Boston & Maine, the New York, New Haven & Hartford, has decided to spend approximately $10,000,000 in the near future. Of this amount $4,000,000 will be for new equipment, and the remainder for improvements to existing lines. The program of strengthening bridges will be carried on so that the heaviest type of motive power may be run over the whole system. Improvements will be made to the Saugus River drawbridge near Lynn, Mass., and the Noble's Island Bridge at Portsmouth, N. H. About 25 miles of double tracking will be done between Ayer and Nassau, N. H. The East Somerville, Mass., shops will be pushed to completion as rapidly as possible and extensive improvements will be made to the shops at East Fitchburg. C. S. Mellen, New Haven, Conn., is Pres., and will have supervising charge of all improvement work for the present.

CLEVELAND, OHIO.—The ordinance for the street and city work along the Pennsylvania line in connection with the grade-crossing elimination is now up for consideration, but has not yet been introduced into the Council. Plans for the work are nearly completed, but have not been approved. The greater proportion of the work will be done by the railroad company. The city work consist, chiefly in street changes, providing for underground improvements. None of the city work is expected to be advertised before winter. Robt. Hoffman is Ch. Engr., Dept. of Public Service, Cleveland. Noted Sept. 23.

DELAWARE, LACKAWANNA & WESTERN R. R.—Plans have been prepared and are now before the president for decision regarding the general reconstruction of the line between Clark's Summit, Pa., and a point about two miles west of Halsted. This work will involve the elimination of all grade crossings on the new line, saving about three miles of distance and reducing the curvature. The grades at this point now run as high as 60 ft. to the mile. The work will also include the elimination of a number of grade crossings in the City of Scranton. The cost is estimated between $9,000,000 and $12,000,000. R. M. White, Scranton, Pa., is Div. Engr.

ERIE R. R.—Plans have been prepared to double-track a line between Ashland, Ohio, and Nakin, a distance of about four miles. F. L. Stuart, 50 Church St., New York, is Ch. Engr.

FLORIDA.—A new line is contemplated in Leon County. This will be an extension of the St. Mark's branch of the Seaboard Air Line from Woodville to Crawfordville, by way of Wakulla Springs. R. Griffin Johnson, Pensacola, is interested in the project.

HOCKING VALLEY RY.—It is the intention of the Hocking Valley Ry. officials to effect a direct connection with the Chesapeake & Ohio. This can be accomplished by extending the Wellston & Jackson Belt branch from Jackson to a point about six miles east of South Portsmouth, Ky. (about 30 miles), or by the use of trackage rights on the Cincinnati, Hamilton, Dayton from Gallia, and constructing that route (40 miles of line) to Huntington, W. Va. Either construction will involve the building of a bridge across the Ohio River.

NEW YORK, NEW HAVEN & HARTFORD R. R. CO.—The abolition of grade crossings at Rumford, R. I., is under consideration. No definite steps have yet been taken regarding additional electrification schemes. Edward Gagel, New Haven, Conn., is Ch. Engr.

PRAIRIE FARM & SOUTHWESTERN R. R.—A certificate of convenience and necessity has been granted this company by the Wisconsin State Railroad Commission. A line will be built from Prairie Farm southwest to Emerald. E. G. Scott, Prairie Farm, Wis., is Pres.

ROANOKE & MOUNT AIRY SOUTHERN R. R.—A charter has been granted for a road from Roanoke, Va., to Mount Airy, N. C. This road, as projected, will run through the counties of Floyd, Carroll and Patrick in Virginia and Surry in North Carolina. A. L. Sibert is Pres.; R. H. Angell, First Vice-Pres.; C. G. Ogden, Gen. Mgr.; L. C. Stewart, Secy.-Treas. The other directors are: S. B. Pace, E. A. Thurman and George W. Payne, all of Roanoke, Va. There is a short line, 19 miles long, running up from Mount Airy, through a few miles in Virginia, to a point in Patrick County. It is the Mount Airy & Eastern R. R., and has been in the hands of receivers for two years or more. It is not known here whether or not the promoters contemplate a junction or consolidation with this road. E. M. Wiley, Flat Iron Bldg., New York, N. Y., is Receiver of the latter road.

SOUTHERN PACIFIC CO.—The contract for the construction of the Fernley & Lassen R. R. has been awarded to ERICKSON & PETERSON. The road will run from Fernley, Cal., northwesterly through Washoe County, Nev., and Lassen County, Cal. The road will reach the Sacramento Valley at Chico, going northward to Klamath Falls, Ore., by the way of Altura and Lake View, Ore.

WAMEGO RIVER & ROCK CREEK VALLEY R. R.—The contract to build 20 miles of line from Westmoreland, Kan., to Wamego by the way of Flush and Louisville, has been awarded to C. E. COON & CO. A sub-contract for the grading work has been awarded to A. C. WHEELER, Westmoreland. C. E. Morse is Pres., and C. C. Eastham, Ch. Engr., both of Westmoreland, Kan.

WEST VIRGINIA.—The Greenbriar, Cheat & Elk R. R. Co. has recently been incorporated to build a railroad in Randolph, Pocahontas, Webster Co., W. Va. The incorporators include S. E. Slaymaker and Henry L. Condit, both of Cass, W. Va.

ELECTRICAL RAILWAYS.

GREAT BARRINGTON, MASS.—The New York, New Haven & Hartford R. R. has asked the State Board of Railroad Commissioners that it be permitted to extend the company's system southerly from the present terminus at Great Barrington through Sheffield to Ashley Falls, near the Connecticut line. In return for the right to take over the Berkshire system the New Haven road agreed to expend the sum of $2,000,000 in developing this section of Massachusetts through the medium of trolley extensions.

WILSON, N. Y.—Plans are under consideration to build a line from the New York Central station to Sunset Beach on Lake Ontario. The proposed line will be two miles long. S. M. Conant, Wilson, N. Y., is interested.

MORRISTOWN, N. J.—The Board of Aldermen Oct. 7 granted the Morris County Traction Co. permission to continue its line from its present terminus at the municipal building around the park and down Morris St. to the Lackawanna station and thence down Morris St. to the junction of Washington Ave., near Washington's headquarters. At this point the trolley will leave the public highway and take to a private right of way. The road later will build to Convent and Madison. J. L. Reach, Morristown, N. J., is Ch. Engr.

CLARION, PA.—We are officially advised that the Clarion & East Brady Electric Ry. Co. is now ready to let contracts for about six miles of grading. The line will connect Clarion, Reidsburg, Curllsville, Sligo, Reinsburg and East Brady. In all, about 30 miles will be built. G. E. Arnold, Clarion, Pa., is Pres. Noted Feb. 10.

MORGANTOWN, W. VA.—The South Morgantown Traction Co. contemplates the extension of its lines about 12 miles to the old Fairmount Fair Grounds. Surveys are now being made. Dudley D. Britt, Clarksburg, is Ch. Engr.

WHEELING, W. VA.—A company has been organized under the name of the Wheeling, Cactez & Tuscarawas Traction Co., to construct a line to Cactez and Uhrichville. R. P. Scott, Wheeling, W. Va., is Pres.

KENTUCKY.—The Kentucky & Tennessee Traction Co. has recently been organized to build an interurban electric line from Hopkinsville, Ky., through Sulphur and Mineral Springs, Pembroke, Trenton and Guthrie, Ky. It is the intention of the company later to extend the lines into Nashville and at a future date northward from Hopkinsville to reach Evansville, Ind. M. C. Forbes, Hopkinsville, Ky., is Pres. and Chas. Van den Burg, Toledo, Ohio, is the moving spirit in the scheme. The directorate includes M. C. Forbes, N. Cathier, T. J. McReynolds, A. H. Eckles, N. F. Dortch, John H. Bell, H. A. Keach, S. Frankel, all of Hopkinsville, Ky.; J. W. Cross, Pembroke, Ky.; W. J. Dickinson, Trenton, Ky., and R. F. Warren, Guthrie, Ky.

SPRINGFIELD, ILL.—A new electric line is contemplated running from Springfield through Cantrall, Athens, Petersburg and Sweetwater to Greenview, Ill. Those interested in the line met recently and appropriated $6,000 for a survey and elected the following officers: Homer J. Tice, Greenview, Pres; George L. Harnsberger, Springfield, Vice-Pres.; Samuel E. Prather, Springfield, Secy. Executive committee—Homer J. Tice, Greenview; R. Y. Kincaid, Athens; W. F. Workman, Springfield; G. L. Harnsberger, Springfield; S. E. Prather, Springfield.

MADISON, WIS.—A franchise has been granted to the Wisconsin Valley St. Ry. Co. to build a line on East and West Washington Aves. and thence northward. The objective point is Wausau but the line to Portage, about 30 miles, will be started at once. A line is also planned around Lake Monona and one from Madison to Janesville. J. E. Jones is Treas.

KENOSHA, WIS.—Plans are being made to build an electric railway from Kenosha west to Lake Geneva. The line will touch all the summer resorts of this and surrounding counties. J. K. Orvis, Kenosha, Wis., is interested.

DAVENPORT, IOWA.—The Tri-City Ry. & Light Co. has awarded the contract for extending the 27th St. line in Moline from Seventh to 15th Aves. to the McCARTHY IMPROVEMENT CO., Davenport. J. G. White & Co., New York, N. Y., are Operating Mgrs.

OMAHA, NEB.—Two lines are projected by the Nebraska Transportation Co. One of these lines is to run to Sioux City, 96 miles long, through Nebraska. The other line has Norfolk for its objective point, and the distance is also 96 miles. The company will build a double track from Omaha as far as Elk City, 20 miles out. There the Norfolk line will branch off in the northwest and the Sioux City line to the north, each having a single track. C. W. Baker, Omaha, Neb., is Gen. Mgr.

EL PASO, TEX.—The El Paso Electric Ry. Co. has increased its capital stock. It is rumored that its lines will be extended down the valley as far as Ysleta, about ten miles. This is under the direction of Stone & Webster, Boston, Mass.

LIGHT AND POWER PLANTS.

(Denotes that this work is advertised in Engineering News.)*

SWAMPSCOTT, MASS.—Contract for lighting the streets of the city for five years has been awarded to the LYNN GAS & ELECTRIC CO., the only bidders, as follows: Arc lights, first year, $73 each; second year, $72.50; third year, $72; fourth year, $71.50; fifth year, $71.50; incandescent lights, $17.50 each per year. Contract is based upon service of 80 arc lamps of 1,200 c. p. each, and 120 incandescent lights of 36 c. p. each.

NEW LONDON, CONN.—Bids for furnishing insulated cable were received on Sept. 23 by Lieut.-Col. Harry Taylor, Corps Engrs., U. S. A., New London, as follows: (a) Hazard Mfg. Co., 50 Dey St., New York; (b) Standard Underground Cable Co., 50 Church St., New York. 17,500 ft. type A 1 cable, armored, per ft., (b) 38 9/10 cts.; 8,900 ft. type A 1 cable, unarmored, per ft., (b) 26 8/10 cts.; 10,860 ft. type A 2 cable, armored, per ft., (b) 44 3/10 cts.; 600 ft. type B cable, braided, per ft., (a) 16 6/10 cts., (b) 11 cts.; 5,000 ft. type B cable, armored, per ft., (a) 31 7/10 cts., (b) 26 5/10 cts.; 800 ft. type C cable, braided, per ft., (a) 24⅛ cts., (b) 14 9/10 cts.; 18,600 ft. type C cable, armored, per ft., (a) 39¾ cts., (b) 31 2/10 cts.; 3,100 ft. type C cable, unarmored, per ft., (a) 30¾ cts., (b) 22 1/10 cts.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Nov. 3, by the Park Board for all materials and labor required for furnishing and installing electric lighting fixtures in the Metropolitan Museum of Art, located in Central Park, on the west side of Fifth Ave., opposite 82d St., Boro. Manhattan.

Bids are asked until 10.30 a. m., Oct. 20, by R. Waldo, Fire Comr., for furnishing all the labor and materials required for the installation of automatic electric switches in the quarters of various companies in Manhattan and the Bronx.

Bids are asked by R. Waldo, Fire Comr., until 10.30 a. m., Oct. 19, for furnishing all the labor and materials required for repairs to the heating systems in various company quarters in the boroughs of Manhattan and the Bronx.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 20, for furnishing, delivering and installing electric control cables in underground ducts, from the South St. high pressure pumping station to the gate valve vaults in New Chambers St., east of New Bowery and in East Houston St., east of Bowery; and for furnishing, delivering and installing motor operated gate valves, subsidiary ducts, etc., with all appurtenances complete, in the high pressure fire service mains in New Chambers St., East of New Bowery and in East Houston St., east of Bowery.

EAST RANDOLPH, N. Y.—The Public Service Commission, Second District, has granted to George B. Woodmancy, Randolph, N. Y., permission to commence work on the construction of an electric light plant in East Randolph to supply electricity for lamps and motors in the village.

SWEDESBORO, N. J.—The Gloucester County Electric Co., Pitman Grove, N. J., has applied to the Borough Council for 25-year franchise in Swedesboro.

JERSEY CITY, N. J.—Bids will be received until Oct. 17 by the Board of Street and Water Commissioners, George T. Bouton, Clk., for furnishing gas and oil, street lighting and extinguishing same, beginning from date of contract to and including Nov. 30, 1911.

BIRDSBORO, PA.—Contract has been awarded to the AMERICAN CONSTRUCTION CO., Newton, Iowa, for a carburetted water-gas works here for H. R. Gochnauer, Harrisburg, Pa.

PITTSBURG, PA.—Plans are being prepared for the construction of a new power plant for the American Locomotive Works.

WILKES-BARRE, PA.—Extensive improvements, including a new power-house and the carrying of high-tension wires outside the city, are planned by the Wilkes-Barre St. Ry. Co.

*ANNAPOLIS, MD.—The following bids were received by the Secretary of the Navy, Washington, D. C., on Oct. 1 for power plant equipment at the U. S. Naval Academy, Annapolis, Md.: D'Olier Engineering Co., Philadelphia, Pa., 121 South Eleventh St., $132,700; Lord Electric Co., 213 West 40th St., New York, $166,482; Camden Heating Co., Camden, N. J., $134,950; John W. Danforth Co., Buffalo, N. Y., $141,895; Evans-Almiral Co., New York, $137,136.

ANNAPOLIS, MD.—The contract for additions to the power plant and distributing system at the Naval Hospital, has been awarded to the NOEL CONSTRUCTION CO., German and Calvert Sts., Baltimore, at $19,200. Bids were opened on Sept. 10 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C. List of bidders noted on Sept. 15.

WASHINGTON, D. C.—The Terminal Taxicab Co., 1225 20th St., Washington, desires prices on equipment for electrical plants for charging storage batteries, etc.

Bids were received on Oct. 5, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for furnishing light fixtures for various public buildings. The only complete bid received was that of David J. Brown Mfg. Co., 135 Washington St., Chicago, Ill., at $12,188.

WASHINGTON, D. C.—The following bids were opened on Sept. 15 by the Chief of Ordnance, U. S. A., Washington, for furnishing electrical apparatus for two 14-in. gun turrets: (a) work at factory; (b) work at place of delivery: General Electric Co., Schenectady, N. Y., (a) $82,315, (b) $89,127; Cutler-Hammer Co., Milwaukee, Wis., (a) $93,604.

CHARLESTON, W. VA.—The Kanawha Water & Light Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for practically a duplication of its electrical equipment, including a 750-KW. steam turbine set and one 200-KW. direct-current, motor generator set, together with additional pumping equipment. W. C. Davisson is Treas.

WADESBORO, N. C.—A H. Richardson, of Ansonville, N. C., and others are considering the development of the northern section of the county. Their plans include the construction of a large hydroelectric power plant near Kendall Ferry, in Rocky River, 15 miles north of here. It is proposed to build a dam and power house at this point, to cost about $400,000, and develop from 6,000 to 7,000 HP.

MORGANTON, N. C.—J. D. Pitts, Glen Alpine, N. C., will construct a plant to furnish electricity to Morganton and Glen Alpine. Construction of concrete and rock dam on Canoe Creek, four miles from Morganton, has been started. Capacity, about 250 HP. Estimated cost, $20,000.

SPRING HOPE, N. C.—D. L. Culpepper, it is reported, is interested in a project for the development of water power and the erection of a cotton mill on Tar River, six miles distant from here. It is expected that 1,000 HP. can be developed.

GREAT FALLS, S. C.—The Southern Power Co., Charlotte, N. C., will erect a 4,000-HP. plant here. W. S. Lee is Ch. Engr., Great Falls.

DILLON, S. C.—The city has voted $15,000 of bonds for improving and equipping the electric light plant. M. A. Stubbs is interested.

AMERICUS, GA.—The city will vote on $65,000 bond issue for the enlargement of the electric light plant.

MACON, GA.—The Street Lighting Committee has estimated that 55 additional lamps will be required for the new territory recently annexed to Macon. Estimated cost, $4,000.

RICHLAND, GA.—The city is considering increasing the output of the municipal electric light plant. The new equipment will include an 80-HP. Schofield boiler, a 100-HP. Corliss engine and a 75-KW. alternating-current generator. M. B. Brown is Supt.

MADISON, GA.—The Apalachee Power Co. is completing a survey of its water power on the Apalachee River. The proposed lake with 50 ft. head will develop 1,200 HP. T. B. Johnson is Elec. Engr.

ORLANDO, FLA.—W. W. Lyon, C. E., Jacksonville, Fla., has made surveys and submitted maps, plans and estimates in detail for electric light plant, sewer system and water-works here.

MONTGOMERY, ALA.—The Montgomery Traction Co. has awarded the contract for the construction of its new power house here to the F. S. ROYSTER GUANO CO., of Norfolk, Va. Estimated cost, $14,000.

ERWIN, TENN.—The Nolachucky Power Co., W. C. Heath, Pres., Monroe, N. C., it is reported, is having plans prepared by Ladshaw & Ladshaw, of Spartanburg, S. C., for a water-power electrical plant on Nolachucky River.

ATHENS, OHIO.—Bids will be received until Oct. 22 by the Board of Trustees of Athens State Hospital for furnishing and installing two 150-HP. boilers, standpipe 22 ft.×80 in., system of steam and water piping and hydrotherapeutic plant. The Osborne Engineering Co. is Consul. Engr., Cleveland, Ohio.

ASHTABULA, OHIO.—The American Fork & Hoe Co., Ashtabula, is preparing to double the capacity of its power plant.

CINCINNATI, OHIO.—Bids will be received until Oct. 25 by the Board of Hospital Commissioners, Cincinnati, for light fixtures in the contagious hospital group. Samuel Hannaford & Sons are Archs., Sixth and Vine Sts.

ADDYSTON, OHIO.—Bids will be received by Benjamin Fangman, Village Clk., until noon, Oct. 25, for lighting streets, alleys and other public places in the village, the bids to state the cost per light furnished.

MARION, IND.—The City Council has voted to issue $75,000 of bonds for the construction of a municipal electric light plant.

KANKAKEE, ILL.—The contract for the construction of the power plant of the Kankakee Power Co. has been awarded to C. HOERTZ & SON. Estimated cost, $40,000.

CHICAGO, ILL.—The city and the Trustees of the Sanitary Drainage District of Chicago have come to an arrangement whereby the latter is to provide street lighting for the entire city. The Sanitary Drainage District is to take over the transmission lines owned and operated by the city. The number of street lamps now in use will probably be doubled.

CHICAGO, ILL.—See item under Manufacturing Plants.

ROCK ISLAND, ILL.—Bids will be received by the Commanding Officer, Rock Island Arsenal, Rock Island, until 2 p. m., Oct. 20, for furnishing and delivering at the Rock Island Arsenal one 50-HP., 50-volt compound-wound double-connected motor, with pulley, side rails and starting rheostat, 400 r.p.m.

CARLYLE, ILL.—The City Council has let contracts for enlarging the capacity of the city power plant, as follows: for the machinery, to the RUSSELL MFG. CO., of Massillon, Ohio, at $9,100; for the building, to W. T. FINK, of Carlyle, at $3,181.

MEDFORD, WIS.—We are officially advised that bids were received on Sept. 30 for one 50-HP. gas engine and 50-HP. suction gas producer, with all fittings and fixtures complete; also one 500-gal. belt-driven triplex power pump, with necessary equ'ment. Contract was awarded to the FAI BANKS-MORSE CO. at $3,645. W. G. Kir offer is Engr.

SPENCER, IOWA.—The contract for 28 electroliers on Main St. has been awarded by the Council to the McDONNELL IRON WORKS, of Des Moines. The extension of the system north on Main St. to 20th St., is being considered.

ROCHESTER, MINN.—Plans are being prepared by E. D. Jackson, 408 Capital Bank Bldg., St. Paul, Minn., for an extensive system of street lighting to cost $20,000. Bids will be asked about Jan. 1.

JASPER, MINN.—Bids will be received by G. M. Peterson, City Clk., until Oct. 15, for constructing carburated water gas works. Edward Burg is Mayor.

SHAKOPEE, MINN.—The Minnesota River Improvement & Power Co. will probably receive bids next spring for the proposed work contemplated. Estimated cost, about $2,000,000. J. H. Diers, Blakely, Minn., is Secy. and Gen. Mgr.

FORT SCOTT, KAN.—The Fort Scott Gas & Electric Co. has awarded the contract for remodeling the power plant to W. E. CASSELL. Estimated cost, $7,000.

MILFORD, NEB.—The citizens are considering the installation of an electric power and pumping plant for municipal service.

OMAHA, NEB.—The lowest bid opened on Sept. 17, for wiring the Douglas County court-house was that of the Unity Electric Co., at $9,969.

BOZEMAN, MONT.—A gas franchise has been granted to Dr. Carl Schroeder and J. C. McCarthy. The plant to be erected will cost $100,000.

MILES CITY, MONT.—Contracts for the installation of machinery for the municipal electric light plant have been awarded as follows: For engine to WHITEACRE & CO., of St. Paul, Minn.; electrical equipment, to the GENERAL ELECTRIC CO., of Schenectady, N. Y.

ST. LOUIS, MO.—The contract for installing heating in the U. S. public building at St. Louis, Mo., has been awarded to the HAULEY-CASEY CO., Chicago, Ill., at $75,650; less for omitting air-purifying apparatus, automatic temperature control, non-conducting coverings, fan No. 6, and for substituting Scotch marine boilers and omissions of fan engines and all changes incident to substitution of motor drive, $16,335.

The Board of Public Improvements is considering plans for enlarging the power plant in the City Hall, which supplies electricity for lighting the municipal buildings. Four plans are under consideration. The first is to enlarge the present plant in the basement of the City Hall; the second to erect another building, to be used especially for a light and heating plant; the third to construct a separate boiler house on a lot to be purchased in the Mill Creek Valley, where it would be convenient to a coal switch, and convert the entire space now used in the basement of the City Hall to steam turbines and generators, with steam sent through a pipe line from the boiler house; the fourth, to purchase energy from the Union Electric Light & Power Co. and take out the electric apparatus from the City Hall and use the space to enlarge the heating plant. The Union Electric Light & Power Co. has submitted a proposition to the Board of Public Improvements offering to supply electricity for lamps and motors for the down town group of city buildings as follows: For service up to 60,000 KW. per month, at 2.17 cts. per KW.-hour; from 60,000 to 70,000 KW., 2.06 cts.; from 70,000 to 80,000 KW., 1.99 cts.; and 1.95 cts. for all above 80,000 KW. Estimated amount needed for the buildings, including the new municipal building, between 60,000 and 70,000 KW. per month. The above rates do not include lamps or appliances.

TAYLOR, TEX.—W. B. Schurtz & Son, owners of the franchise recently granted by the city for the installation of a gas plant here, have let the contract to EVENS & LEE, of Taylor, to erect for them a brick plant on First St., just east of the Citizens Light & Power Co. plant.

NEW BRAUNFELS, TEX.—Adolph Henne, of New Braunfels, and associates will erect a large reinforced concrete dam across the Guadalupe River, near here, to provide the initial power for a hydroelectric plant.

AUSTIN, TEX. — Negotiations for the transfer by the Dumont-Holmes Steel Concrete Construction Co. of its contract for the reconstruction of the dam across the Colorado River at Austin to the Hydraulic Properties Co., 60 Broadway, New York, are said to be practically completed. The Board of City Commissioners has no objection to the transfer being made. It is announced by the representatives of the Hydraulic Properties Co. that the work of constructing the dam and hydroelectric plant will be started and pushed forward rapidly as soon as a few slight alterations in the original plans can be made.

MUSKOGEE, OKLA.—Plans are being considered by the Muskogee Industrial Development Co. for the construction of a dam across the Grand River. Gov. C. N. Haskell is Pres.

STILLWATER, OKLA.—We are officially advised that plans and specifications are almost completed for a power-house for the Oklahoma Public Service & Interurban Ry. Co. Nothing will be done until after election, and possibly until the first of the year. R. A. Sturgeon is Ch. Engr.

FARMINGTON, NEW MEX. — Improvements are contemplated to the electric light and power plant, including the erection of a new dam, an ice and cold-storage plant, concrete spillway, bulkheads, etc. Estimated cost, $100,000. R. L. Knowles is Pres.

SPOKANE, WASH.—The City Council is considering the installation of a municipal electric power plant at the up-river pumping station. Under the proposed plan the city will be able to construct a plant with an output of 6,000 HP., to furnish power to operate all the city's pumping machinery. Estimated cost, $50,000.

SEATTLE, WASH.—The contract has been let to the NOVELTY INCANDESCENT LAMP CO. for incandescent lamps for the city lighting department. Estimated cost, $60,000.

SPOKANE, WASH.—Stoolfire Bros. of Spokane, who own the Arlington mine at Ruby, are preparing to install a power plant on the property.

ALBANY, ORE.—The gas franchise will be granted to P. G. Rowe, and a plant to cost $100,000 will be erected.

LAKEVIEW, ORE.—The South Oregon Water Power Co. is considering plans to develop the water power of Deep Creek, near Adel. The installation will at first develop 2,500 HP., but will ultimately generate 10,000 HP. Electricity generated at the plant will be used in Lakeview, Warner Valley, Surprise Valley, Cal., and Catalow Valley for municipal, manufacturing and irrigation purposes.

RED BLUFF, CAL.—T. H. Ramsey, Mgr. Cone Ranch, has filed notice of appropriation of 10,000 cu. ins. of water in Mill Creek. The water will be diverted from the creek and carried in flumes to the Cone Ranch, to be utilized to generate electricity.

YREKA, CAL.—Supervisors have adopted plans and specifications for a heating plant in the new Hall of Records, from which the entire court-house and jail will be heated. Estimated cost, between $6,000 and $7,000. Bids will be asked.

LOS ANGELES, CAL.—The Domestic Gas Co. is preparing to build a pipe line that will supply territory between Los Angeles and San Bernardino with Los Angeles gas. The system will cost $1,000,000 to install.

LOS ANGELES, CAL.—Bids are asked by the High School Board, Los Angeles High School District, until 3 p. m., Oct. 20, for wiring Polytechnic and Manual Arts High School buildings. N. S. Averill is Secy.

BODIE, CAL.—Bids will be received by George Delury, County Clk., until Nov. 14 for the franchise applied for by the Hydro-Electric Co. to erect and operate electric transmission lines in this county for a term of 30 years.

LOS ANGELES, CAL.—Refunding bonds for $25,000,000 will be issued by the San Joaquin Light & Power Corporation. Part will go toward retiring outstanding bonds, and the rest will furnish funds for electrical power development in Mariposa, Fresno, Madera, Tulare, Kern and Kings Counties.

SACRAMENTO, CAL.—The Board of Supervisors has awarded a contract to the PACIFIC GAS & ELECTRIC CO. for supplying electricity for lighting the streets of the Curtis Oaks lighting district. The contract calls for twenty 200 c. p. arc lamps at $6.30 each per month. Bids will soon be called for lighting the Highland Park district. C. W. McKillip is Mgr., Sacramento.

PASADENA, CAL.—The MACHINERY & ELECTRICAL CO., 351 North Main St., Los Angeles, has secured the contract for installing a steam boiler plant in the new Throop Polytechnic Institute here, at $8,333. The specifications include Westinghouse Air Brake Co. automatic air compressor, Crane Co. pipe and fittings, General Electric Co. Wagner or Westinghouse motors, cyclone oil burner, unit or Scotch type boiler, with Morrison corrugated furnace, as built by the Continental Boiler Works of New York.

OROVILLE, CAL.—Stanward Logue has filed notice of appropriation of 20,000 cu. in. of water in the Middle Fork of the Feather River, about 200 yds. below the junction of the south branch of the river, to be utilized for power development.

PARADISE, CAL.—W. H. Hanscom, of Paradise, has filed a notice of appropriation of 1,500 miners' in. of water in Big Chico Creek, near here. It is proposed to erect a 500-ft. concrete dam across the creek to divert the water to be carried to a power house where electricity will be generated and distributed to the towns of Paradise, Orloff, Stirling, Concow and other towns in this section.

SALINAS, CAL.—Monterey Electric Light & Power Co. is considering improvements to cost about $500,000, including the extension of the water system of Salinas and improvements to the gas service. John M. Gardiner is Vice-Pres.

SAN FRANCISCO, CAL.—The Downtown Association is planning to install 140 electroliers in the downtown district of the city. Estimated cost, $16,000.

SILVERBELL, ARIZ.—The Arizona Power Co. has let contract for a low elevation power line up the Verd Valley to ED. KURMIER and WILLIAM NEAGLE, of Prescott. The sum of $100,000 will be spent on the project.

NEVADA CITY, CAL.—Articles of incorporation of the Sunset Power Co. have been filed. The corporation is organized under the laws of the State of California, with its principal place of business at San Francisco, for the purpose of dealing in water and electrical power. Capital stock, $500,000. C. B. Greeley and Thomas Turner, of Alameda, and William L. Boos, of San Francisco, are interested.

WALLACE, SASK.—The Hypotheck Mining Co., owning mining property at Kingston, is contemplating the installation of electric power in its mines. Estimated cost, $12,000.

SALT LAKE CITY, UTAH.—Bids will be received by the Utah Light & Ry. Co. until Oct. 15 for the erection of a steel transmission line from Salt Lake City to Ogden. Plans and specifications can be seen at the office of O. A. Hannold, Elec. Engr., 133 South West Temple, Salt Lake City.

TORONTO, ONT.—The Board of Contract and Supply on Sept. 30 awarded contracts as follows in connection with the civic electrical department. Storage batteries to CHAPMAN & WALKER CO., LTD., at $2,870; transformers to GENERAL ELECTRIC CO., at $15,800; motor generator sets to LANCASHIRE DYNAMO & MOTOR CO., at $2,262.

BRIDGES.

(Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The contract has been awarded to THE BOSTON BRIDGE WORKS, Boston, for repairing the drawbridge at Dover St.

NEW HAVEN, CONN.—Contract has been awarded the BOSTON BRIDGE WORKS, 47 Winter St., Boston, Mass., by the New York, New Haven & Hartford R. R. Co. for the construction of eleven bridges to be erected between Essex and Middleton, Conn. One bridge will be a single-track, two span, and will be 116 ft. long and ten will be from 20 to 40 ft. in length. Edward Gogel, New Haven, Conn., Ch. Engr., New York, New Haven & Hartford R. R.

NEW HARTFORD, CONN.—Bids will be received by the Board of Selectmen, Wallace Case, Chn., until Oct. 14 for the construction of two bridges of concrete and iron, one to be 25-ft. and the other 50-ft. span.

PUTNAM, CONN.—Bids will be received by the Board of Selectmen, Clarence E. Pierce, Chn., until 2 p. m., Oct. 17, for the construction of a reinforced concrete bridge. Plans and specifications may be examined at the office of Leon T. Wilson, Town Clk.

NEW YORK, N. Y.—Bids will be received by Kingsley S. Martin, Comr. of Bridges, 13-21 Park Row, N. Y., until 2 p. m., Oct. 20, for the construction of gates and laterals for the Westchester Ave. bridge over the Bronx River.

NEW YORK, N. Y.—Bids will be received by Kingsley L. Martin, Comr. of Bridges, until 2 p. m., Oct. 13, for repairing the fender of the Willis Ave. bridge over the Harlem River.

UTICA, N. Y.—The contract has been awarded by the N. Y. Central & Hudson River R. R. for constructing a bridge over the Mohawk River at the west end of the Black River yard, to the McCAIN CONSTRUCTION CO., Mercer Pa.

TROY, N. Y.—Plans for the remodeling of the Rensselaer St. viaduct have been completed. Estimated cost, $10,000. Edwin Grimes is City Engr.

CHENANGO BRIDGE, N. Y.—Contract has been awarded by the Board of Supervisors to the CLIMAX ROAD MACHINE CO., Marathon, N. Y., for the construction of the substructure and superstructure of a five-span steel bridge 330 ft. in length to cross the Chenango River.

LOCKPORT, N. Y.—The Scofield Engineering Co., Philadelphia, Pa., has been retained by the Browning Manufacturing Co., Cleveland, Ohio, to design a cantilever material handling bridge.

WESTFIELD, N. Y.—Plans have been submitted by the Buffalo & Lake Erie Traction Co. for a 900-ft. bridge over the twenty-mile gulf.

ALLENTOWN, PA.—The contract has been awarded by the County Commissioners to HORN & NEFF, Slatington, Pa., for the construction of a concrete bridge near Jacksonville, at $8,338.

DAWSON, PA.—The Pittsburg & Lake Erie R. R. is preparing plans for the raising of the Dawson Bridge above the railroad tracks. Estimated cost, $20,000. J. A. Atwood, Pittsburg, Pa., is Ch. Engr.

READING, PA.—Plans have been approved by the Philadelphia & Reading Ry. Co. officials for the proposed bridge across the Lebanon Valley tracks. The cost is estimated at $40,000.

PHILADELPHIA, PA.—The contract has been awarded to McNICHOL PAVING AND CONSTRUCTION CO. for the construction of a concrete arch bridge 400 feet long across the lowland of the Catawissa Railroad, north of Rupert.

AUGUSTA, GA.—E. B. Reed [illegible] others, of Columbus, have formed a stoc[illegible]pany and will build a bridge across the [illegible]ahoochee River. Estimated cost, $50,0[illegible]

TALLULAH, LA.—Bids will [illegible]eived until Nov. 2 by A. L. Slack, S[illegible]y Police Jury, for the construction of tw[illegible]dges over Joes Bayou at Cow Bayou an[illegible] Bozeman Place. The latter will be 16[illegible]ong and have a 14-ft. roadway.

CINCINNATI, OHIO.—A con[illegible]as been entered into by the Missouri P[illegible] Ry. Co. and the Metropolitan Street R[illegible] for the construction of a concrete bri[illegible]ross the Lexington branch of the Miss[illegible]acific at Independence.

ZANESVILLE, OHIO.—The co[illegible] for the new Fifth St. Bridge has bee[illegible]rded to the MT. VERNON BRIDGE C[illegible] $2[illegible]985.

ZANESVILLE, OHIO.—Bids [illegible] be received by the Commissioners o[illegible]kigum County, Ohio, until noon[illegible]t. 31, for the erection of a bridge ac[illegible] Duncan's Run. Plans and estimates on fi[illegible] the office of L. E. Brelsford, County A[illegible]

WAPATONETA, OHIO.—Bids [illegible] be received by the Board of County C[illegible]rs, until 1 p. m., Oct. 18, for constructing [illegible] bridges in Logan Township. Plans and sp[illegible]fications are on file in the office of the C[illegible]nty Surveyor. A. E. Schaffler is County [illegible]dr.

BUCKLAND, OHIO.—Bids wi[illegible] be received by the Commissioners o[illegible] Auglaize county, Ohio, at the Chipman br[illegible]ge about two miles north of Bucklan[illegible] at 11 a. m., Oct. 18, for completing th[illegible] Chipman bridge approach. A. E. Schaffer, [illegible]dr.

CLEVELAND, OHIO.—Bids wi[illegible] be received until 11 a. m., Oct. 26, a[illegible]e office of the Board of Comrs. for the c[illegible]struction of a concrete bridge. Plans at th[illegible] office of Frank R. Landor, County Surv., Cleveland, Ohio.

EVANSVILLE, IND.—Bids will be received until 10 a. m., Oct. 13, by the Board of Commissioners of Vanderburgh County for the repairing and erection of bridges in various districts.

JASPER, IND.—Contracts have been awarded to TRAYLOR & KREMPP, Jasper, Ind., and A. E. CONSTRUCTION COMPANY, Boonville, Ind., for the construction of two bridges.

STURGIS, MICH.—The contract has been awarded by J. S. Flanders, Mgr. Board of Public Works, to F. N. VASE, Three Rivers, Mich., for raising two bridges.

BLOOMINGTON, ILL.—Contract has been awarded BURNHAM & IVES for the construction of the Clinton St. bridge.

COLONA, ILL.—Plans have been prepared by the State Engineer for the construction of a bridge over Rock River and have been forwarded to the Secretary of War for approval. Estimated cost, $60,000.

CHICAGO, ILL.—Bids are wanted by the Board of Public Works for the construction of a concrete bridge over the Fox River at the intersection of Broadway and Madison Sts.

ROCK ISLAND, ILL.—The erection of a reinforced concrete bridge over Rock River is contemplated. Wallace Treichler is City Engr. The cost is estimated at $15,000.

SUPERIOR, WIS.—Plans are being prepared for the construction of a bridge over the Nemadji River at West Fourth St. The plans call for a structure one-half mile long and will cost between $75,000 and $100,000. E. B. Bank is City Engr.

*WAUKESHA, WIS.—Contract has been awarded by the Board of Public Works to THOMAS BLALA, Appleton, Wis., at $4,960 for the construction of a reinforced concrete bridge at Broadway. Morgan R. Butler is City Engr.

HAYS, KAN.—The Board of County Comrs. has awarded the contract for the construction of five county bridges to the ILLINOIS STEEL BRIDGE CO. at $10,655.

OTTAWA, KAN.—The contract has been awarded by Frank Baldwin, County Clk., Ottawa, to the CANION BRIDGE CO. for the construction of nine bridges. The cost is $5,000. Harry Gillette is Engr.

RICHMOND, MO.—Bids will be received by W. H. Kirkham, County Engr. ex-officio, until 2 p. m., Oct. 15, for the construction of two concrete bridges. One will be near the Wakenda Church and one on a line between sections 23 and 24.

DEL RIO, TEX.—Contract has been awarded by John Taini, County Comr., for the construction of a reinforced concrete bridge across the San Fillipe Creek. It will be 180 ft. long and 40 ft. in width and consist of four arches.

DALLAS, TEX.—The contract has been awarded to BERNARD CORRIGAN to construct the viaduct across the Trinity River, at $425,000.

ENID, OKLA.—Ten contracts to the sum of $30,000 have been awarded to SALES & THOMPSON for the construction of bridges in Arkansas and Southern Illinois.

SEATTLE, WASH.—The construction of a steel and concrete bridge costing about $25,000, over Fifth Ave., at Yesler Way, is contemplated. R. H. Thomson is Engr.

REDWOOD CITY, CAL.—Bids will be received until 10 a. m., Oct. 17 for constructing a concrete culvert at San Gregorio, and La Honda Road. Plans are on file in the office of J. H. Nash, Clk.

OAKLAND, CAL.—Bids will be received until 10 a. m., Oct. 17, for construction of wooden bridge on the county road between Hayward and Roberts Landing, San Lorenzo road District, Alameda Co., Cal. Plans with John P. Cook, County Clk.

SACRAMENTO, CAL.—The Trustees of the city have advertised for bids for reinforced concrete bridge across Humbug Gulch, on Oregon St., near high school building.

SACRAMENTO, CAL.—Contract has been awarded by the West Sacramento Land Co. to the MISSOURI VALLEY CONSTRUCTION CO. for the construction of a combined railroad and highway bridge over the Sacramento River.

THERMAL, CAL.—Contract has been awarded by the City Council to J. W. GRINNEL of Corona, Cal., at $6,995 for repairing the Rincon Bridge.

PHOENIX, ARIZ.—The contract for the construction of a bridge over the Verde River on the Territorial Road, has been awarded the MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kans., at $18,390. It will be a steel structure and consist of three 100-foot spans.

HORSESHOE BEND, IDAHO.—Bids will be received until 10 a. m., Oct. 19, by L. R. Duke, [illegible] County Comrs., Idaho City, Idaho, for the erection of a steel bridge across the power canal at Horseshoe Bend.

*QUEBEC, QUE.—Bids received Oct. 1 for the construction of the superstructure of the Quebec Bridge were from the following: St. Lawrence Bridge Co., Ltd., Montreal, representing the Dominion Bridge Co., Montreal and the Canadian Bridge Co., Walkerville. The British Empire Bridge Co., Montreal, representing the Cleveland Bridge & Engineering Co., Ltd., Darlington, England, and the Patent Shaft Axle Co., Wednesburg, England. The Pennsylvania Steel Co., Steelton, Pa., and Maschinenfabrik, Augsburg-Nurnburg, A. G., Gustavsburg, Germany. No information regarding prices will be given out until the board has made its report, which, because of the number of plans and alternative bids received, will probably be delayed for some weeks.

QUEBEC, CAN.—Plans have been completed by the Strauss Bascule Bridge Co., 134 Monroe St., for a steel and concrete bridge 88 ft. long to span the Princess Louise docks.

QUEBEC, QUE.—The Government has decided to aid in the erection of an iron bridge over the Chaudiere River. The cost will be about $33,000.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)*

RUMFORD, ME.—The following contracts were awarded recently for the club house for the Rumford Mechanics' Association at Rumford, plans for which were prepared by Miller & Mayo, Archs., of Portland. Excavation, FORGIONE & ROMANO, South Portland; heating plant, WILLEY & CALHOUN, 49 Market St., Portland; painting, A. P. FULLER & CO., 432 Fore St., Portland; and L. E. BRADSTREET, of Hallowell, is the general contractor. The building will be located at Congress and Exchange Sts., having a frontage of 125 ft. on Congress St. and 80 ft. on Exchange, and will be built of brick, with stone trimmings. The money for its establishments was contributed by Hugh Chisholm.

BOSTON, MASS.—Bids will be received by E. F. McSweeney, Chn., Consumptive Hospital Trustees, 926 Tremont Bldg., until Oct. 19, for the proposed hospital building. Maginnis & Walsh, Colonial Bldg., are Archs.

BOSTON, MASS.—Bids will be received by Walter Chaning, Chn., Trustees of the Boston State Hospital, until noon, Oct. 31, for the construction of a Psycopathic Hospital, at Fenwood Road and Vila St. Kendall, Taylor & Co., 93 Federal St., are the Archs.

SPRINGFIELD, MASS.—The property at 350-4 Main St. is being torn down, and in its stead a 5-story building will be erected. It will be constructed of pressed brick, with granite cornices, and will be fireproof, 46 x 56 x 164 ft. The plans were prepared by B. Hammett Seabury, 368 Main St., Arch. D. W. MELLEN has the contract for the mason and iron work, and also for wrecking the old building. A. G. CHAPMAN, 123 Liberty St., Springfield, has the general contract.

NEW BRITAIN, CONN.—The New Britain Turner Society contemplates the erection of a building, to cost $45,000. The Building Committee has charge of the work.

The following bids were received recently for the construction of St. Andrew's Church for the Lithuanian Catholics, on North Stanley St.; F. T. Nesbit & Co., New York (not including the iron work), $67,089; H. Wales Lines, Meriden (not including iron work), $62,700; Peck McWilliams & Co., Norwich (general contract), $59,652; B. H. Hibbard Co., of New Britain (entire contract), for $55,975; THOMAS REILLEY & SON, 1616 Thompson St., Philadelphia, entire work, $55,375 (awarded contract).

NEW HAVEN, CONN.—We are officially advised that bids will be received about Oct. 31 for the construction of a fireproof, brick, concrete and steel engine house for the New York, New Haven & Hartford R. R. Co. It will be one story high and circular, with 44 stalls. Estimated cost, $200,000. Edward Gogel, of New Haven, is Ch. Engr.

NEW YORK, N. Y.—B. Altman & Co. plans to build an annex at the northwest corner of 34th St. and Madison Ave. to their department store, which, when completed, will occupy the block bounded by 34th and 35th Sts., Fifth and Madison Aves.

Plans were filed recently for the proposed building of the Roman Catholic Church of Eglise St. Jean Baptiste, of which the Rev. A. Laetellier is the Rector, at the southeast corner of Lexington Ave. and 76th St. The structure will be of limestone and polished granite, with a massive copper dome in the center and flanked by two copper-domed towers, the dome being supported by a series of Corinthian columns. The cost of structure is estimated at $300,000 by Nicholas Serracino, 1170 Broadway, the Arch.

LEO LEVINSON, Elton Ave. and 159th St., will build 5-story flats, 50 x 88 ft., on the east side of 227th St., 100 ft. south of Adrian Ave. Plans filed by L. F. J. Weiher, Arch., 271 West 125th St., place the cost at $40,000.

A 3-story brick theater is to be erected at the northwest corner of Tinton Ave. by Max Wersc[illegible]er, 663 Tinton Ave. Thomas W. Lamb, [illegible] Fifth Ave., is the Arch. Estimated cost, $75,000.

NEW YORK, N. Y.—The Securities Holding Co., N. Rubenstein, 15 West 119th St., Pres., will build at the northeast corner of 178th St. and Mohegan Ave., a 5-story brick tenement, with stores, 30.3 x 80, 2½ and 65 x 24.4 ft. Charles B. Meyers, 1 Union Sq., is Arch. Cost, $75,000.

The MUNDEN CONSTRUCTION CO., Audubon Ave. and 176th St., is to erect a 6-story brick apartment house, 100 x 90.11 ft., at the southeast corner of Pinehurst Ave. and 179th St., from plans prepared by G. F. Pelham, Arch., 507 Fifth Ave. The cost is estimated at $175,000.

Plans have been filed for a 9-story fireproof store and wareroom building, to be erected at the northwest corner of Liberty and Church Sts. It will have a frontage of 59 ft. in Liberty St. and 99.7 ft. in Church St., and will be known as the "All Light Building." The building is owned by the Church and Liberty Co., the lessees of the land, which is owned by George N. Robinson. Herts & Tallant, Archs., 113 East 19th St., estimate the cost of the building at $200,000.

Plans have been filed for a 7-story office building to be erected on the north side of 48th St., 175 ft. east of Fifth Ave., for Joseph Keen, owner, at a cost of $40,000. The facade of the building will be of marble to the second story, and of stucco, plate glass and copper tiles, and surmounted by a copper dome. Alfred E. Barlow, 5 West 31st St., is the Arch.

Plans have been filed by George and Edward Blum, Archs., 505 Fifth Ave., for the 89th and 90th Co., George F. Johnson, Pres., for a $1,000,000 fireproof apartment house to be erected at the southeast corner of West End Ave. and 90th St. The building will have a frontage of 100.8 ft. in the avenue and 162.6 ft. in the street, where the main entrance will be located through an outer court. The building will be twelve stories high, and will accommodate 48 families.

Bids will be received about Dec. 1 for the construction of a 1-story and basement industrial school on Randall's Island. It will be fireproof, 191 x 81 ft. Estimated cost, $60,000. William Flanagan, foot of East 26th St., is the Arch. Noted last week.

Bids will also be received at the same time and place for a 4-story stone dormitory at the Metropolitan Hospital, Blackwell's Island. It will be fireproof and completely equipped with gas, electricity, steam, etc. Estimated cost, $100,000.

We are officially advised that estimates are now being taken for a 4-story stone and brick loft building, 125 x 75 ft., at Clark and Dominick Sts. for the Trinity Church Corporation. It will be of mill construction, with steam and sprinkling systems, contracts for which have been let. Estimated cost, $60,000. Renwick, Aspinwall & Tucker, 320 Fifth Ave., are the Archs. Noted last week.

NEW YORK, N. Y.—Bids will be received by Michael J. Drummond, Comr. Dept. of Public Charities, until 2.30 p. m., Oct. 25, for furnishing all labor and materials necessary for all excavation, masonry, steel and iron work, roofing and metal work, carpentry, glazing, painting, hardware, plumbing, heating work, refrigerating work, electric work, kitchen apparatus, fitting up fixtures and all other work for the erection and completion of an administration building, a surgical pavilion, a storage, kitchen and dining hall building, a service tunnel and covered corridor connecting buildings and a power-house, ambulance and laundry building, and also all plumbing, heating, refrigerating and electric work, kitchen appartus, fitting up, fixtures and the like for six ward pavilions (now under contract) situated on the property of the Department of Public Charities, New York City Farm Colony, Boro. of Richmond.

JAMESTOWN, N. Y.—It is reported that WILLIAM HANLEY, of Bradford, Pa., has been awarded the contract to build the Sherman House at Jamestown at an approximate cost of $300,000.

UTICA, N. Y.—The Hurd & Fitzgerald Shoe Co. has awarded the contract for the carpentry, masonry, iron and cut stone work to D. A. YEOMANS for its proposed 5-story brick building at the southeast corner of Main and First Sts. The plans prepared by F. H. Youngs, Arch., 70 Genesee St., Utica, call for a structure of 67 x 100 ft., on a lot 100 x 100 ft.

ALBANY, N. Y.—In the competition among architects held by the city of Albany for the best design for the proposed High School that presented by Goldwin, Sterret & Van Vleck, 103 Park Ave., New York, with Orrin Winthrop Rice, associated, has been accepted. The cost of the proposed building, as estimated by the architects, will be $300,000. The structure will be of standard fireproof construction, the exterior being in red tapestry brick. The heating will be by the plenum system of forced ventilation, supplemented by direct radiation. The building, which will be rectangular, will have in its center an auditorium capable of seating 1,000 persons. The Lake Ave. front will be 360 ft. long and it will also have a frontage of 100 ft. on Western and Washington Aves. Bids will be asked for soon for constructing the building. James B. McEwan is Mayor.

ALBANY, N. Y.—The bids received by the Board of Contract and Supply for constructing the proposed Third Precinct Police Station, have been rejected. The specifications will be revised at once and the work readvertised. Isidore Wachman is Secy. of Board.

RAYBROOK, N. Y.—Bids are asked by Martin E. McClary, Pres. of the Board of Managers, until noon, Oct. 29, for the construction of a building for employees at the State Hospital for Incipient Tuberculosis at Raybrook, N. Y., including heating, plumbing and electric work. This is a readvertisement, all bids received on Sept. 23 having been rejected. F. B. Ware is State Arch.

ATLANTIC CITY, N. J.—Charles B. Prettyman, Merion, Philadelphia, Pa., will erect an 8-story brick and stone hostelry of 280 rooms at Pacific and Maine Sts., Atlantic City. The cost will be $100,000. The same owner has had plans prepared for a 6-story addition to the Hotel Merion, of which he is also the owner. Permits were granted for a 7-story fireproof addition to the Hotel Dennis for Walter J. Buzby, the cost to be $200,000.

BLOOMFIELD, N. J.—Bids will be received until Nov. 1, by Charles W. Martin, for the construction of a high school building at Bloomfield.

JERSEY CITY, N. J.—A Masonic Temple is to be built here to replace the one recently destroyed by fire. The building will be three stories high, with two stores and a banquet hall on the ground floor and lodge rooms on the second and third floors, at an estimated cost of $80,000. The Building Committee consists of Edwin M. Farrier, W. L. Daniels, Edward W. Woolley, Henry J. Darling and William G. Meyer.

ERIE, PA.—Jacob Haller's Sons Co., wholesale grocer, plans the construction of a building on the property of the Erie Malting Co., on Parade St., near 17th St. It will be 120 x 200 ft., with an extension on 18th St. of 82½ ft. Later on, the company will build an addition, 60 x 165 ft., and 4 stories high. Switches will be built from the Pennsylvania and Lake Shore railroads.

MIDDLETOWN, PA.—The First Catholic Slovak Union of America plans the construction of several buildings on the Rupley farm, near Middletown. They will be built of concrete, iron, brick and stone. Estimated cost, $40,000.

PHILADELPHIA, PA.—JOHN N. McGARNEY, 6147 Lansdowne St., will erect 97 2-story houses at 61st St. and Chester Ave., to cost $200,000.

E. A. CARROLL, 60th and Race Sts., will build 15 3-story dwellings, 16 x 42 ft. each, at 4916 to 4944 Chestnut St., for B. L. Carroll, to cost $65,000.

H. E. WAGONER will erect for William A. Lechler 24 2-story houses, 15 x 48 ft. each, on Webster St., west of 55th St., to cost $52,400.

A. WHITEHEAD, 1624 Latimer St., has been awarded the contract for a $50,000 office building for the William Cramp Ship & Engine Building Co., at Beach and Ball Sts. It will be 50 x 95 ft. and three stories high. Plans were drawn by Savery, Scheetz & Savery, Archs., St. Girard Bldg., Philadelphia.

JOHN DUNCAN, 920 Walnut St., Philadelphia, has the contract for the erection of a 3-story cut stone house, 42 x 60.6 ft., with a wing, 43.2 x 56.3 ft., at Chelter and Park Ave., Elking Park, for Stephano Bros., to cost about $80,000.

Henry J. Blauvelt, Arch., Marine and Merchants' Bldg., has completed plans for a 16-story apartment house to be built on the site now occupied by the residence of W. W. Gibbs, at the northeast corner of 18th and Walnut Sts. The lot has a frontage of 60 ft., with a depth on 18th St. of 122 ft. The building will contain 55 suites of apartments, of four, six and eight rooms each. Estimated cost, $900,000.

J. F. Moss, 58th St. and Girard Ave., will erect 44 2-story houses, 14.6 x 39 ft. each, on Montrose St., west of 56th St., at a cost of $79,200.

EASTON, PA. — James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a post-office at Easton, Pa., to M. P. WELLS, Witherspoon Bldg., Philadelphia, at $92,359; time, July 1, 1912. Bids were received on Sept. 20 and noted on Sept. 29 in Engineering News.

PITTSBURG, PA.—The Haugh & Keenan Storage & Transfer Co., 5914 Center Ave., recently purchased a site, 50 x 150 ft., in Center Ave., near Euclid, for $37,500, on which they plan to erect a warehouse in addition to the present one. Estimated cost, $50,000.

PHOENIXVILLE, PA.—Henry L. Reinhold, Jr., Arch. 10th and Sansom Sts., Philadelphia, is preparing preliminary plans and specifications for the proposed high school building at Phoenixville, to cost $50,000.

READING, PA.—The directors of the Y. M. C. A. have decided to erect a new building for the use of the association, it is stated.

WEST CHESTER, PA.—The Building Committee of the West Chester State Normal School has awarded to WILLIAM H. JONES, of this city, the contract for building the proposed dormitory for boys in Wayne Field and the enlargement of the present main building, including extension of the dining room, girls' dormitory and new kitchen, for $128,900.

YORK, PA.—James Knox Taylor, Superv. Arch., Treasury Depart., Washington, D. C., has awarded the contract for the construction of a post-office at York to M. P. WELLS, Witherspoon Bldg., Philadelphia, at $238,056; time, April 1, 1912. Bids were received on Sept. 29, list of which was given last week.

BALTIMORE, MD.—Plans are about finished for the proposed structure to be erected at 2700 East Baltimore St. for the St. Elizabeth Roman Catholic Church. Robert C. Ullrich, Gunther Bldg., is the Arch. It will be 2½ stories, with slate roof, steam heat, gas and electric lighting, plumbing and tile work, and will cost about $100,000.

It is reported that Otto G. Simonson, Arch., American Bldg., has been commissioned by the Empire Circuit to prepare plans and specifications for the New Monumental Theater, to be erected at 305-315 West Fayette St. It will have a frontage on Fayette St. of 125 ft., with a depth of 150 ft. Cost, $150,000. Work will be started soon.

A. Lowther Forrest, Professional Bldg., is preparing plans for a church building for the congregation of All Saints' Protestant Episcopal Church, Monroe and Baltimore Sts. It will be built along Gothic lines, of stone, with concrete foundation. The building will cost about $50,000. Rev. E. W. Wroth is Pastor.

BALTIMORE, MD. — It is reported that Joseph Evans Sperry, Calvert Bldg., has finished the plans and specifications for the proposed warehouse for Jacob Epstein, to be erected at 204-220 West Baltimore St., for the Baltimore Bargain House, and bids will be taken soon. It will cost about $500,000.

The RAYMOND CONCRETE PILE CO., 722 East Pratt St., has been awarded the concrete for placing concrete piles in the foundation of the proposed warehouse to be erected at 1041 Light St. for Besche Bros., from plans prepared by H. J. Tinley, 314 North Charles St.

JOHN COWAN, INC., 106 West Madison St., has been awarded the contract to erect a building at 42d St., near York Road, for the Boundary Avenue Methodist Episcopal Church, from plans by George N. MacKenzie and Howard Stevenson, associated architects with Wyatt & Nolting, Keyser Bldgs, three stories, stone, slate and slag roof, steam heat, gas and electric lighting, plumbing, cement floors.

L. O. HILDEBRAND & BRO., 520 Law Bldg., have been awarded the contract for the erection of an addition at 1200 East Baltimore St. for the Daughters in Israel, Inc., from plans by Otto C. Simonson, American Bldg. It will be three stories, of brick, 50 x 150 ft., with slag roof, steam heat, gas and electric lighting, plumbing, etc.

Wyatt & Nolting, Archs., Keyser Bldg., have finished the plans and specifications for the proposed corridor to hospital, to be erected at Monument St. and Broadway, for the Johns Hopkins Hospital. It will be 24 x 123 ft., fireproof, of brick, terra-cotta trim, with electric lighting and tile floors. The bidders are the B. F. Bennett Bldg. Co., 123 South Howard St.; Morrow Bros., 218 West Saratoga St.; and William Ferguson & Bro., 214 Clay St.

Plans are being prepared by Otto G. Simonson, Arch., American Bldg., for the proposed addition to the Maryland Casualty Co.'s building at Fayette and Guilford Aves. It will be ten stories, 100 x 203 ft., of brick, with terra-cotta trim, electric lighting, electric elevators, plumbing. Bids will be taken as soon as the plans are finished.

WASHINGTON, D. C.—Bids will be received about Nov. 15, by J. H. de Sibour, Arch., Hibbs Bldg., for an 8-story theater and office building at 15th and G Sts., N. W. It will be of marble and terra cotta construction, and will be 176 x 115 ft. Estimated cost, $900,000.

CHARLOTTESVILLE, VA.—The contract for the proposed Chesapeake & Ohio Ry. Co.'s freight depot, to be erected here, has been awarded to the KING LUMBER CO., of Charlottesville. The structure will be erected on the north side of the company's tracks, between Second and Fourth Sts, east, and will cover two full blocks, architecturally and in general arrangements repeating the Chesapeake & Ohio freight depots in Richmond and Newport News, with the exception of the office building. The land and building will cost $50,000, the structure to be of brick and stone, 300 ft. long by 50 ft. deep.

WIERTON, W. VA.—CATTRELL BROS., of Steubenville, Ohio, have been awarded the contract for the erection of 24 company houses here for the American Sheet & Tin Plate Co., which is enlarging its plant in this city. The estimated cost is about $50,000.

ATLANTA, GA.—The Medical Board of the Grady Hospital, at a recent meeting, approved the detailed plans and specifications for the proposed $100,000 hospital building as submitted by Harry Leslie Walker, Arch., Candler Bldg. W. B. Summerall is Supt.

Bids will be received until noon, Oct. 17, by Edward E. Dougherty, Arch., Candler Bldg., for the erection of a brick school house for the Ninth Ward of Atlanta, on East North Ave. L. M. Landrum is Secy. Bd. of Education, and W. M. Slaton is Supt. Schools.

*WAYCROSS, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all the bids for a post-office building at Waycross, received on Sept. 15 and noted on Sept. 29, as being in excess of the appropriation. The work will be readvertised.

TAMPA, FLA.—Bids will be received until Oct. 18 by the County School Board for the construction of a high school on Highland Ave. It will have two stories and a basement, and will cost in the neighborhood of $50,000. Prof. E. L. Robinson is one of the committee.

LOUISVILLE, KY.—A 15-story building is contemplated at Fifth and Jefferson Sts., to be used by the First National Bank of the Kentucky Title Savings Bank & Trust Co. The lot is 66 x 210 ft., and belongs to the Caldwell Estate. Arthur Mueller, of Mueller & Martin, is interested. The structure will cost between $500,000 and $600,000.

CLEVELAND, OHIO.—H. J. Latimer, of the Fireproof Storage Co., 5700 Euclid Ave., recently purchased the property along the Pennsylvania R. R. tracks, north of Euclid Ave., with a frontage of 132 ft. and a depth of 620 ft., for the purpose of constructing a storage warehouse.

An hotel will be built by Isaac Stein at Maplewood-on-the-Lake, at Stop 136½, Shore Line. It will be semi-fireproof. Plans for the building are being made by D. A. Reamer, Arch., New England Bldg. It is to be so designed that it can be added to by building additional stories or wings. Fred. S. Avery, Mgr. of the Hotel Euclid, is interested.

COLUMBUS, OHIO.—The contract for the Hartman theater, to be erected at Third and States Sts. by S. B. Hartman, has been awarded to the SELDEN-BRECK CO., Fullerton Bldg., St. Louis, Mo., at $251,000. The work is to be begun at once and will be completed by July 1, 1911.

Secretary Kelley, of the Columbus Builders' and Traders' Exchange, announces that the plans for the $250,000 library building for the Ohio State University will soon be ready for estimates. The plans and specifications are being prepared by Allen & Collins, Archs., 6 Beacon St., Boston, Mass.

PORTSMOUTH, OHIO.—Bids will be received by the Board of Education of Portsmouth, on Oct. 24, for the erection of a high school. The work was advertised some time ago, but the contract was not awarded, as the bids were in excess of the money available.

DAYTON, OHIO.—Plans have been completed for the proposed armory of the League of Commanderies of the Knights of St. John, to be erected on Marshall St. adjoining the present structure, by Thies & Thies, the Archs., and they have been filed with the Builders' Exchange. The building will be two stories high, of brick, and will be 155½ ft. long and 40 ft. wide.

YOUNGSTOWN, OHIO.—An hotel, to cost $750,000, has been secured here, all the capital stock but $30,000 out of $350,000 having been subscribed. D. H. Burnham & Co., Railway Exchange Bldg., Chicago, who will build the hotel, will float $500,000 in bonds. The old Tod house will be razed to make way for the new one.

CHICAGO, ILL.—S. N. Crowen, Arch., 108 La Salle St., Chicago, has awarded the plumbing contract to WOLFF & WINKLER, 229 North State St., and electric elevators to KAESTNER & HECHT, 245 Jefferson St., for a 3-story warehouse, 100 ft. square, at 39th and La Salle Sts., for I. See & Co., to be of brick and mill construction.

Frost & Granger, Archs., 181 La Salle St., have awarded the steam-heating contract to L. H. PRENTICE CO., 24 Sherman St.; electric work to KOHLER BROS., 279 Dearborn St.; and plumbing to KLUMB & DROESSE, for the Hiram Kelley branch library at 62d St. and Normal Ave. It will be two stories, 50 × 90 ft., and will cost $45,000.

H. R. Wilson & Co., Archs., 218 La Salle St., has awarded the hot-water heating contract to H. P. RIEGER for a $40,000 residence at 4805 Drexel Boulevard for George B. Robbins, 4356 Drexel Boulevard. Estimates for plumbing are now being received.

Jenney, Mundie & Jensen, Archs., 171 La Salle St., will prepare plans for a $1,000,000 building, 20 stories, 62 × 144 ft., at State and Quincy Sts., for Jacob L. Kessner. It will be of steel, tile and terra cotta and pressed brick construction.

C. W. Stevens, Arch., 109 Randolph St., is preparing plans for nine apartments, to cost $80,000, at 5523 and 5527 East End Ave., for Charles Horrie. They will be of pressed brick construction, with hardwood finish, mantels and consols, steam heating, tile work and modern plumbing.

James Burns, Arch., 112 Clark St., has completed plans for twelve apartments, three stories high and 80 × 100 ft., to cost $50,000, for John S. Holmes, 112 Dearborn St. The structures will be of pressed brick construction, with hardwood finish, steam heating, mantels and consols, tile work and modern plumbing.

William F. Pagels, Arch., 34 Clark St., will receive estimates soon on a 3-story building, 100 × 149 ft., to cost $55,000, to be of brick and mill construction, with fireproof windows, vault doors, electric freight elevator, steam heating and plumbing.

Borst & Hetherington, Archs., 100 Washington St., have awarded the masonry to WILLIAM G. CARTER; carpentry to MORRIS & BARRON; plumbing to THOMAS CONLON; plastering to WILLIAM BALHATCHET; sheet metal work to S. C. McFARLAND; and iron doors to S. H. HARRIS, for a 2-story building, 48 × 118 ft., at 736 Pearce St., for the Zeno Mfg. Co. It is to be of brick construction, with steam heating and sprinkler system.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., are receiving estimates for a 6-story addition, 46 × 100 ft., at 43d St. and Drexel Boulevard, for the Lincoln Warehouse Co. It is to be of concrete, brick and tile fireproof construction, with electric elevators, fireproof windows and have private steel storage rooms.

Thomas McCall, Arch., 9 Jackson Boulevard, has awarded the masonry contract to GEORGE THOMPSON & SON for an addition to Western Paper Stock Co.'s warehouse at 14th St. and Indiana Ave. Estimates for sprinkler system and fireproof windows are now being received.

A 85-acre site, near Foster and Lincoln Aves., has been chosen on which the proposed municipal tuberculosis sanitarium will be constructed. Frank E. Wing, Supt. of the Chicago Tuberculosis Institute, has been appointed General Superintendent of the sanitarium.

Simon L. Marks, of H. M. Marks & Co., wholesale tailors, Jackson and Peoria Sts., has purchased from Emil Eiger, of Eiger Bros., the vacant property at the southwest corner of Sangamon St. and Jackson Boulevard. The property fronts 143 ft. on Jackson Boulevard and 100 ft. on Sangamon St. The purchaser, it is understood, will improve the property with a 7-story concrete building, to cost about $175,000, during the next year or so.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., have awarded the plumbing to MURPHY-KEELEY CO., and plastering to MONAHAN BROS. for a 7-story warehouse, 92 × 330 ft., to cost $250,000, at 39th and La Salle Sts., for the Hartman Furniture Co.

PEORIA, ILL.—The contract for erecting the proposed Deaconess Hospital at Peoria, for $50,000, has been awarded to WILLIAM Z. MARTIN, of Peoria.

OAK PARK, ILL.—Patton & Miller, Archs., 140 Dearborn St., have awarded the fan system-heating contract to LEWIS & KITCHEN, Twelfth and Michigan Aves., for a $50,000 addition to the Oak Park high school.

AURORA, MINN.—At a mass meeting of the taxpayers of School District No. 13, recently held, it was decided to build a school to cost about $90,000.

CLINTON, MO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Clinton to M. YEAGER & SON, Danville, Ill., at $63,195; time, Nov. 1, 1911. Bids were received on Sept. 22 and noted on Sept. 29.

*WARRENSBURG, MO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all the bids received for the construction of a post-office at Warrensburg as being in excess of the amount available. The work will be readvertised. **List of bids was given Sept. 29.**

KANSAS CITY, MO.—A 15-story building, 48 × 112 ft., at the northeast corner of Main and Eleventh Sts., is to be built for the convenience of Kansas City's women shoppers by the May-Stern Realty Co., A. Waldheim, Pres., Twelfth and Olive Sts., St. Louis. The plans were prepared by D. H. Burnham & Co., Railway Exchange Bldg., Chicago, Ill.

KANSAS CITY, MO.—A 17-story office building on the southwest corner of Twelfth St. and Baltimore Ave. is projected by Hughes Bryant, M. W. Barba, both of Kansas City, and A. C. Billcke, of Los Angeles, Cal. It will be 135 × 158 ft. D. H. Burnham & Co., Archs., Railway Exchange Bldg., Chicago, Ill., are preparing the plans. The estimated cost is $1,500,000.

ST. LOUIS, MO.—A building is to be erected by the Masons of Missouri, near Delmar and Union Aves., adjoining the present site of the Masonic Home buildings The proposed structure, which is to cost $100,000, will be used as an infirmary, while the old buildings will be retained as at present.

Plans for the Terminal Association's proposed passenger station to be erected on the river front north of and adjoining the west end of Eads Bridge have been completed, and work on the station will begin at once. The station will be built of dark-red brick, terra cotta, steel and reinforced concrete, and the interior will be finished with white enamel brick. It will have a 46-ft. front and will extend back for 66 ft. The station will have five floors and four decks or platforms. It is probable that the structure will be completed by April 1, 1911.

HOUSTON, TEX.—The J. I. Case Threshing Machine Co. will erect a 3 or 4-story warehouse, covering a plot 110 × 262 ft., on Commerce Ave. and the extension of Broadway Ave. in the Second Ward. H. F. Eitzberger is Local Mgr.

TEMPLE, TEX.—Bids were received as follows on Oct. 7, by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for construction of a post-office at Temple: L. R. Wright, Dallas, Tex., $77,779; Fell & Ainsworth, Waco, Tex., $69,135; King Lumber Co., Charlottesville, Va., $84,634; Thomas 0 Wiber, Beaumont, Tex., $76,064; Texas Building Co., Fort Worth, Tex., $76,900; Cecil L. Saunders, Clifton Forge, Va., $68,000. Date of completion, Nov. 1, 1911.

EAGLE PASS, TEX.—Bids will be received by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Nov. 19, for the construction (including plumbing, gas piping heating apparatus, electric conduits and wiring) of the U. S. post-office and custom-house at Eagle Pass.

OKLAHOMA CITY, OKLA.—The State Capitol Committee has completed its general plans for building a State capitol at Oklahoma City. Layton, Wemeiss, Smith 0 Tawk, Archs., Majestic Bldg., Oklahoma City, were chosen to prepare plans. The building will cost $1,500,000.

WENATCHEE, WASH.—The contract for designing plans and specifications for the proposed $40,000 Y. M. C. A. building at Wenatchee was let recently to RUSSELL & REICE, Archs., Johnstown Bldg., Seattle. Active work on the structure, a 3-story brick, 60 × 120 ft., will be started soon.

SEATTLE, WASH.—An 8-story building, to cost $1,250,000, is to be erected by the Bon Marche, owned by Nordhoff & Co., on the property bounded by Second Ave, Union and Pike Sts., and the alley between First and Second Aves. It will be steel frame, with concrete floors, terra cotta exterior and fireproof in every particular. The building will be fitted with an elevator system of 16 cars, and an individual lighting and power plant will be placed in the basement. A complete sprinkling plant will be installed for fire protection. Frank M. McDermott is Pres. and John Graham, Central Bldg., is Arch. and will have charge of construction.

PORTLAND, ORE.—The J. W. Leavitt Co., automobile manufacturers, is planning to construct a building at 16th and Burnside Sts. It will be 50 × 100 ft. and two stories high with a basement. Estimated cost, $40,000. D E. Whitman is Local Mgr.

Lipman, Wolfe & Co., Third and Washington Sts., plan the erection of a building, 100 × 200 ft., on Fifth, Washington and Adler Sts. Doyle & Patterson, Worcester Bldg., Portland, are the Archs. It will be ten stories high, of terra cotta and brick. W. F. Lipman is Mgr.

MARE ISLAND (Vallejo post-office), CAL.—Bids will be received until 11 a. m., Nov. 19, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing quarters for wireless telegraph operators at the U. S. Navy Yard, Mare Island. Specifications are on file at the office of Engineering News, New York.

BAKERSFIELD, CAL.—Frain & Williams, 254 South Broadway, Los Angeles, have prepared sketches for a hospital building for the Sisters of Mercy. Plans provide for a 3-story brick structure, 60 × 170 ft. Estimated cost, $50,000.

BERKELEY, CAL.—Plans have been accepted by the members of the Building Committee of the First Church of Christ for the proposed structure which they are to erect at the corner of Bowditch St. and Dwight Way, and work thereon will commence at once. It will be built of a combination of wood and concrete, 100 × 150 ft. Estimated cost, $50,000.

LONG BEACH, CAL.—Bids will be received by Albert Johnson, Secy. of Board of Education until 7:30 p. m., Oct. 18, for erection of a group of buildings to be used for a Polytechnic high school, according to plans and specifications prepared by A. Burnside Sturges, Arch.

LONG BEACH, CAL.—We are officially advised that the contract for constructing a 9½-story reinforced concrete hotel for W. L. Porterfield will be awarded soon. There will be two buildings, 77 × 268 ft., estimated to cost about $330,000 and the equipment $100,000. H. M. Patterson, O. T. Johnson Bldg., Los Angeles, is the Arch.

LOS ANGELES, CAL.—The WINSLOW BROS. CO., Central Bldg., have been awarded the contract for installing all ornamental bronze work in banking room and safe deposit department in the 11-story building being erected at Sixth and Spring Sts., for the Los Angeles Savings & Trust Co. Amount, $25,750. Parkinson & Bergstrom, Archs., Security Bldg.

Jeffrey & Van Trees, Archs., are completing plans for the erection of a church building at the southwest corner of Main and 52d Sts. for the South Main Street Methodist Episcopal congregation. It will be 90 × 140 ft. and will have concrete foundation and basement, exterior cement plaster over metal lath, with heavy timber effect and shingle roof. The main auditorium and gallery will have a seating capacity of 600 persons.

LOS ANGELES, CAL.—The Los Angeles Investment Co. is having preliminary drawings made in its architectural department under Ernest McConnell, Superv. Arch., for the 14-story office building at Broadway and Eighth St. The cost is estimated at $1,000,000.

Plans have been drawn by Hunt & Burns, Archs., for the College Theater, which Dr. West Hughes will erect on Hill St., between Fourth and Fifth Sts., adjoining the California Club. The entire front and lobby of the structure will be a free renaissance design, with plaster and staff modeling. A complete ventilation system will be installed.

Plans have been completed by Webber & Smith, Archs., Laughlin Bldg., for the Trinity Methodist Church, South, which will be erected at 847 South Grand at a cost of approximately $100,000.

RIVERSIDE, CAL.—The Committee on Building discussed plans for proposed new church to be built at the corner of Seventh and Lemon Sts. for the Congregational Church, at a cost of from $75,000 to $90,000, according to plans selected. W. H. Howard is Chn. of Committee.

WOODSIDE, CAL.—Homer W. Glidden, 430 South Broadway, Los Angeles, has been commissioned to prepare plans for a 2-story and frame hotel building at Woodside, 17 miles from Visilia, for Gilbert F. Stevenson, of Hollywood. The cost is placed at $50,000.

PASADENA, CAL.—The Board of Directors of the Pasadena Y. M. C. A. at a recent meeting awarded the contract for erecting their building at North Marengo Ave. and Ramona St. to the JAMES A. HARMON CO., 84 Kendall Annex, Pasadena, at $100,100. Work will start soon. Arthur B. Benton, Arch., 114 North Spring St., Los Angeles, prepared the plans. The structure will be 100 × 160 ft., of steel and brick, with pressed brick exterior.

POMONA, CAL.—Plans and specifications are being prepared for the proposed Congregational Church building, and bids will soon be called for. The estimated cost is about $85,000. Rev. Albert P. Davis is Pastor. A gymnasium and banquet hall will be incorporated.

SAN FRANCISCO, CAL.—Col. Frank Denny, Ch. Q. M. of the U. S. Marine Corps, at present in charge of the office of depot and constructing quartermaster of the Pacific Coast, with headquarters in San Francisco, is in receipt of an order from Washington, awarding the bid for the construction of three sets of officers' quarters at the new marine barracks at the Puget Sound Navy Yard to the PACIFIC CONSTRUCTION CO., 16 California St., San Francisco, at $51,250. The bids for the barracks were in excess of the appropriation and orders have been given to change the specifications to fit the amount of money on hand. The buildings contracted for are a house for the commanding officer and two sets of quarters for the junior officers.

TORONTO, ONT.—The NORCROSS BROS. CO., 10 East Worcester St., Worcester, Mass., has been awarded the contract for the construction of the head office building of the Bank of Toronto, in Toronto. The cost will be abost $1,000,000. The exterior of the building will be of Tennessee marble. The structure will be three stories high, with 134 ft. on Bay St. and 121 ft. on King St.

WINNIPEG, MAN.—The Canadian Bank of Commerce will erect a modern 8-story office building on Main St. Alex. Laird, of Toronto, is Gen. Mgr.

WINNIPEG, MAN.—A. W. Melville, Arch., Union Bank Bldg., is preparing plans for a theater building to be erected here for J. M. Nash, to cost $50,000. Work will start this fall. it is stated.

The contract for the erection of the police patrol signal service building has been awarded to D. D. WOOD, Ross and Brant Sts., Winnipeg, at $62,711.

CALGARY, ALTA.—WILLIAM GARSON, of Winnipeg, Man., has the contract to build a hotel here at a cost of $140,000. Burroughs & Richards, of Calgary, are the Archs.

WATER SUPPLY—IRRIGATION

(Denotes that this work is advertised in Engineering News.)*

NEWBURYPORT, MASS.—The Water Commissioners on Oct. 4 decided to construct an additional filter bed.

PITTSFIELD, MASS.—The Board of Public Work has decided to lay water pipe in various streets.

BOSTON, MASS.—We are officially advised that contract has been awarded to the CHARLES T. JACOBS CO., Roxbury, Mass., for laying 3,200 ft. of 30-in. and 1,250 ft. of 24-in. water-pipe at $4,264. Bids were opened on Oct. 1.

LOWELL, MASS.—Bids for the pumping engine for the Centralville station were opened as follows by the Water Board on Sept. 27: The William Tod Co., $39,900; Allis-Chalmers Co., Milwaukee, Wis., $40,700; The Hooven, Owens & Rentscheler Co., $41,000; the Holly Mfg. Co., $41,769; Platt Iron Works, $42,000 and $41,000; Bethlehem Steel [illegible] $51,709. These bids do not include tearing [illegible] foundations and building new ones, [illegible] ing of connections, etc.

*BROOKLINE, MASS.—Bids [illegible] be received by the Water Board un[illegible] p. m., Nov. 3, for furnishing and inst[illegible] a vertical triple expansion pumping [illegible] of a capacity of 2,500,000 gallons in [illegible] hours, for the high service pumping stati[illegible] also for a triplex pump of the same cap[illegible] driven by a gas engine. Specifications [illegible] be obtained by applying to the Broo[illegible] Water Board, Brookline. F. F. Forbes [illegible] pt. W. Wks.

WINSTED, CONN.—The citize[illegible] Sept 27 voted in favor of municipal w[illegible] works.

*THIELLS, N. Y.—The contra[illegible] constructing the water-works and [illegible] system at Letchworth Village, Thiel[illegible] been awarded to R. T. FORD CO., o[illegible] ester, at $128,387. Bids were opened [illegible] 27. List of bidders noted on Sept. 29.

ALBANY, N. Y.—The bids rece[illegible] y the Board of Contract and Supply on [illegible] for installing hoisting crane at the Q[illegible] nbush St. pumping station were: Nor[illegible] Engineering Works, Detroit, Mich , $4,[illegible] Niles-Bement-Pond Co., New York, $[illegible] For furnishing c.-i. pipe for the Wa[illegible] Works Bureau CHARLES MILLER & S[illegible] CO., Utica, N. Y., were awarded contra[illegible] at $22 per ton. Harry J. Deutchbein [illegible] Supt. Water Bureau.

*FORT TERRY, N. Y.—Bids will be received until 11 a. m., Oct. 25, by Capt. F. T. Arnold, Constr. Q. M., U. S. A., New London, Conn., for the construction of a pumping station, including frame building, pumps, gasoline engine, surface wells, connections, etc., at Fort Terry.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 21, for cleaning water mains, Boro. Brooklyn.

MONONGAHELA, PA.—Bids will be received until Oct. 18 by John H. Moffitt, County Controller, for drilling a deep well about 2,500 ft. on either the County Home or the Children's Home farms.

HARRISBURG, PA.—The Water Department has awarded to W. S. MILLER, Telegraph Bldg., the contract for the construction of a concrete 1,000,000-gallon capacity covered reservoir at Oak Knob, Reservoir Park, at $17,705. George G. Kennedy is Supt. Bids were opened on Sept. 22. List of bidders noted on Oct. 6.

CAMBRIDGE, MD.—The Cambridge Water Co. has completed plans for increasing the water supply, the work to include the construction of a duplicate plant, boring of larger wells and installing compound duplex pumps.

HIGHLAND PARK, VA.—Bids for the construction of the whole or a part of a waterworks system will be received until noon, Oct. 24, at the office of C. P. E. Burgwyn, 917 Bank St., Richmond, Engr. A. G. Quarles is Chn. Com. on Light and Water.

FAIRMONT, W. VA.—Shrewsbury B. Miller, City Engr., has submitted to the City Council an estimate of the work to be done in improving the present water supply system to make it adequate for the needs of the city. He recommended 6,000 lin. ft. of 20-in. pipe, weighing 533 tons; 4,400 ft. of 12-in. pipe, weighing about 160 tons; 3,200 ft. 10-in. pipe, weighing about 100 tons. He also suggests the immediate provision of a site and the erection of a new pumping station. His recommendations have been approved by Council and his plans will be carried out as rapidly as possible by the letting of contracts for the work during the winter. Arthur D. Simon and Clarence D. Robinson, Councilmen and members of the Water Committee have been named as a committee and authorized to advertise for and purchase all the necessary materials together with awarding the contracts for all work planned.

FAIRMONT, W. VA.—The contract for 900 tons of water-pipe was awarded on Oct. 3 by the Council to the U. S. CAST IRON PIPE & FOUNDRY CO., 348 Sixth St., Pittsburg, at $22 per ton, f. o. b., Fairmont, for 10 and 12-in. pipe and $49 per ton for specials.

ROMNEY, W. VA.—We are officially advised that plans have been presented to the Council Committee for a system of waterworks for Romney, including reservoir, pumping plant and distribution mains. A vote will be taken for authority to issue bonds. T. Chalkley Hatton is Engr., Equitable Bldg., Wilmington, Del. Noted on Sept. 29.

NEWBURG, W. VA.—The Baltimore & Ohio R. R. Co. has awarded a contract to CHARLES A. SIMS & CO., Harrison Bldg., Philadelphia, for the construction of a large reservoir here to furnish water for locomotives in that section.

*PARKERSBURG, W. VA.—Bids will be received by the Board of Affairs at the office of Frank Good, City Audr., till 8 p. m., Oct. 25, for the following: Contract No. 7, superstructure for pumping station; Contract No. 8, a radial brick chimney; Contract No. 9, for laying cast iron water pipe; Contract No. 10, for cast iron water pipe and special castings; Contract No. 11, for gate valves and boxes, check valves and air valves.

ASHEBORO, N. C.—The city has awarded contract to J. B McCRARY & CO., Atlanta, Ga., for complete system of water-works, including three miles of water mains and seven miles of sewer pipe. The reservoir will have capacity of 125,000 gallons. A tank will be erected on a steel tower and will contain 75,000 gallons. The pump will have a capacity of 750,000 gallons every 24 hours. Preliminary work has begun.

THOMASTON, GA.—The city is considering the construction of water-works.

EASTMAN, GA.—Bonds for $40,000 have been sold for improving the water-works and constructing a sanitary sewer system from the plans of Arthur Pew, Atlanta. Contracts will soon be let.

ORLANDO, FLA.—See item under Light and Power Plants.

ORLANDO, FLA.—See item under Light and Power Plants.

OPELIKA, ALA.—J. B. McCRARY & CO., 1311 Empire Bldg., Atlanta, Ga., have been awarded contract for the construction of water-works and electric light plant.

LOCKPORT, LA.—The city is having plans prepared for water-works. A 20,000-gallon tank steel tower will be erected and 4-in. mains will be laid in two streets.

PATTERSON, LA.—The city has decided to construct water-works. Estimated cost, $30,000. Fred A. Jones Co., Engrs., Dallas, Tex., and New Orleans, La.

CHATTANOOGA, TENN.—Walter G. Kirkpatrick, Consult. Engr., Jackson, Miss., has estimated the cost of constructing municipal water-works at $1,522,220.

ORRVILLE, OHIO.—The contract for laying about 9,482 ft. of 4 to 10-in. pipe, setting hydrants, etc., bids opened on Sept. 30, has been awarded to ESHELMAN & BECHTEL CO., of Orrville, at $7,922.

MANSFIELD, OHIO.—The contract has been awarded to the CENTRAL FOUNDRY CO., Chicago, Ill., for about 530 tons of 12 and 14-in. pipe at about $12,000.

CANTON, OHIO.—A new auxiliary pumping station will be built by the city under the water-works appropriation of $125,000. Ray F. Harbert is Dir. Pub. Ser. Noted on Sept. 29.

ELMORE, OHIO.—The Elmore Water Co., Elmore, has been incorporated at Columbus with a preliminary capital of $10,000 for the purpose of building a water-works plant. The incorporators are: Louis Freese, L. F. Myers, Ernest Jaeger, George A. Harrop and J. F. Cole.

WAYNE, MICH.—Riggs & Sherman, 613 Nasby Bldg., Toledo, Ohio, are preparing plans for the construction of a new water-works system for the village.

MULLIKEN, MICH.—The city is considering the construction of water-works.

SAGINAW, MICH.—The Water Commissioners have recommended the construction of an intake and suction pipe, 48-in. diameter, of reinforced concrete. Estimated cost, $17,900.

ANNA, ILL.—C. W. Brown, of Jacksonville, Ill., is preparing plans for the construction of water-works. Estimated cost, about $40,000. Contract will not be let before Jan. 6.

ST. CHARLES, ILL.—The city is considering extending the water-works to include 1,952 ft. of 4-in. and 8,664 ft. of 6-in. pipe, 20 hydrants, 20 4-in. connections 4 ft. long, four 4-in. and five 6-in. gate valves, with T's, etc. G. N. Long is City Engr.

MOLINE, ILL.—Contract, it is reported, has been awarded to CHAS. A. BERGLUND, of Moline, for laying water mains in the southwest district of the Fifth Ward at $9,984.

BEECHER, ILL.—The contract for installing the water-works system here has been awarded to AVERY & ALPINER, of Kankakee, Ill. Noted on Sept. 22.

WALWORTH, WIS.—Bids will be received until Oct. 27 by the village for the construction of water-works George Cadagan Morgan, of Chicago, Ill., is Engr.

UNDERWOOD, IOWA.—The contract for constructing water-works, bids opened on Sept. 22, has been awarded to the DES MOINES BRIDGE & IRON WORKS, of Des Moines, at $7,024.

HAMPTON, IOWA.—The contract has been awarded to I. M. McCORMICK, of Ft. Dodge, for constructing a reservoir and sewage disposal plant at $4,500.

OCHEYEDAN, IOWA.—We are officially advised that contract has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, for the construction of a water-works system, including a 50,000-gallon steel tank and tower 120 ft. high, 15-HP. gasoline engine and about 8,000 ft. of 8, 6 and 4-in. pipe line, at $10,251. Bids were opened on Oct. 5.

MINNEAPOLIS, MINN.—The Council Water Commission on Sept. 27 decided to recommend an increase to the capacity of the filtration plant. Estimated cost, about $50,000.

New bids will be received by the city for two 20,000-gallon electric-driven water pumps.

CLOQUET, MINN.—Bids were opened on Sept. 19 by J. A. E. Grenier, City Clk., for approximately 7,000 ft. of 6-in. c.i. water pipe, 7,000 ft. of 8-in. sewer pipe, 18 manholes, excavating and back filling approximately 7,400 cu. yds. of earth and rock. Contract has been awarded to the PASTORET-LAWRENCE CO., of Duluth, at about $16,500.

HASTINGS, MINN.—The contract for constructing water-works and sewers, bids opened on Sept. 26, has been awarded to A. H. TRUAX, of Hastings, at $20,199.

MULVANE, KAN.—Bids will be received by the City Clk. until 1 p. m., Oct. 17, for the construction of water-works. The J. S. Worley Co., Reliance Bldg., Kansas City, Mo., is Engr.

JUNCTION CITY, KAN.—The City Council has ordered the installation of a new 3,000,000-gallon Corliss engine for the water-works plant.

UNIVERSITY PLACE, NEB.—Bids will be received until Oct. 22 by E. V. Westfall, City Clk., for sinking a 10-in. well, 160 ft.

FREMONT, NEB.—Plans for the construction of water-works have been submitted to the City Council. Estimated cost, about $27,000.

CHEYENNE, WYO.—The Colorado-Wyoming Development Co., it is reported, has been formed to reclaim 200,000 acres of land in Platte River, near the Colorado State line. A preliminary survey of a canal to run from the Colorado-Wyoming State line to Rawlins, on west side of the Platte, has been made, and another on the east side of the stream will end near Walcott. A reservoir will be located near the State line, and the water will be used for both irrigation and power for the various towns along the course of the canal. F. Chatterton, A. M. Stearns, J. H. Thomas, and others are Directors, Cheyenne.

LIBBY, MONT.—The citizens have voted to issue $16,000 of bonds for the construction of water-works.

SANDERS, MONT.—We are officially advised that bids were received on Oct. 1 by the Secretary of the Yellowstone Irrigation District, at Sanders, for enlarging the Sanders Canal, involving the excavation and placing in embankment of 490,700 yds. of earth and constructing a 340-ft. tunnel and culvert: (a) cash on payment; (b) bonds as payment: G. E. Gandeen, St. Paul, Minn.; (a) $124,294. Robinson & Co., Forsythe, Mont., (a) $106,148; (b) $116,378. Henry Gerharz Engineering Co., Engrs., Billings.

COLUMBIA, MO.—The citizens voted, on Sept. 27, to issue $125,000 of bonds for a water-works and electric light plant.

GALVESTON, TEX.—The only bid received on Sept. 29 by the City Commission for putting in the submerged water main across the draw of the causeway was that of the A. M. Blodgett Construction Co., of Galveston and Kansas City, Mo., at $10,900.

ABILENE, TEX.—Contract has been awarded by the City Council to E. L. NORTON, Abilene, for taking up the present water mains and laying larger ones.

DENISON, TEX.—We are officially advised that the water-works system will be extended. The work will include 17,000 ft. of 16-in., 1,600 ft. of 10-in., and 3,200 ft. of 6-in. c.i. pipe, power station of 3,000,000 gallons daily capacity, five 16-in. two 10-in. and six 6-in. valves. The date of letting has not been decided upon, and no decision has been reached as to kind of power used for pumping. Electric and oil are being considered. W. W. Berry is Supt. Noted on Sept. 29.

MANNSVILLE, OKLA.—The citizens have voted to issue $20,000 of bonds for the construction of water-works.

SPOKANE, WASH.—The Water Department, George W. Armstrong, Comr., is preparing plans for a new pumping station to be constructed at the Lincoln Heights reservoir. A 3,000,000-gallon centrifugal pump will be installed.

TACOMA, WASH.—Contract will soon be let by Nicholas Lawson, Comr. Dept. Light and Water, for the construction of the McMillan reservoir, the second unit of the Green River gravity water system. Capacity, 1,000,000,000 gallons. Estimated cost, about $200,000.

SEATTLE, WASH.—Bids have been opened by the Board of Public Works for improving Twelfth Ave., South, by grading, laying water mains, sewers, etc. The contract has been awarded to the ERICKSON CONSTRUCTION CO., Pioneer Bldg., Seattle, at $336,690.

PORTLAND, ORE.—Bids for 13 contracts for water mains were rejected on Sept. 30 by the Water Board.

RIVERSIDE, CAL.—The City Council is planning to lay larger water mains and construct a large reservoir.

DIXON, CAL.—The Water Co. will build a dam at Devil's Gate on Putah Creek.

OCEANSIDE, CAL.—The city has voted $20,000 of bonds for a water-works system.

TURLOCK, CAL.—Bids will be received until Oct. 24 by the Board of Directors of the Turlock Irrigation District, at Turlock, for constructing a diverting gate, four drops and about four miles of canal in earth on the lower extension of Lateral No. 3 of the Turlock Irrigation District.

MARTINEZ, CAL.—The Board of City Trustees are considering the installation of water-works with electric and gasoline equipment. E. C. Brown is City Engr.

ORLAND, CAL.—Bids were opened on Sept. 24, at the office of the U. S. Reclamation Service, for constructing Schedules 1, 2 and 3 of distributing system of the Orland irrigation service. The only bid received was that of Hard Bros., of Concord, Cal., as follows: Class A Excavation, 18¾ cts. per cu. yd.; Class B Excavation, 30 cts.; Class C Excavation, $1.50, and overhaul (100 ft.), 2 cts. per ft. Total cost, $10,738.

SAN FRANCISCO, CAL.—The CONTRA COSTA CONSTRUCTION CO., Seventh and Berry Sts., San Francisco, has been awarded contract by the Madeline Meadows Land & Irrigation Co. for 250,000 yds. of canal work.

HOLLISTER, CAL.—RICHARD BRYANT has been awarded by the Ausayma Rancho Co. a contract for constructing a concrete dam across Los Viboras Creek on the Ausaymas ranch.

DOUGLAS, ARIZ.—The cost of the proposed water-works improvements has been estimated at $84,800. E. T. Archer, of Kansas City, Mo., is Engr.

EPHRAIM, UTAH.—The city will spend $35,000 for water-works. A portion of the work will be done this fall, and the balance in the spring. R. E. Cadwell, of Salt Lake City, is Engr.

PROVO, UTAH.—We are officially advised that revised bids were received as follows on Oct. 3 for water-works aqueduct and supply mains: Reinforced concrete aqueduct—Holdaway Loan & Investment Co., $51,845; JAMES KENNEDY CONSTRUCTION CO., Salt Lake City, Utah, $47,048 (awarded contract); Strange & Maguire, $56,465. Pipe lines—JAMES KENNEDY CONSTRUCTION CO., $46,359 (awarded contract); Wheelwright Cons. Co., $46,681; Lynch-Cannon Engineering Co., $47,598; Strange & Maguire, $49,388. L. C. Kelsey is Engr., 402 Dooly Bldg., Salt Lake City. Bids for this work were received and rejected on Aug. 29.

SALT LAKE CITY, UTAH.—We are officially advised that the Board of Public Works has awarded contract to P. J. MORAN, Board of Trade Bldg., Salt Lake City, for constructing an 18-in. c.-i. water main in City Creek Canyon, at $109,739.

GLACE BAY, N. S.—Contracts for the water extensions were awarded as follows by the Town Council on Oct. 8: For laying 6-in. pipe, to S. NICHOLSON; for 4-in. pipe, to NEIL N. McDONALD; for 2-in. pipe, to THOMAS McLEAN and R. D. McINTYRE.

SEWERS.

(Denotes that this work is advertised in Engineering News.)*

MARLBORO, MASS.—The contract has been awarded to THOS. P. HURLEY for setting tanks in connection with the new sewer at $8,383.

PROVIDENCE, R. I.—The Committee on Sewers has recommended a resolution for the construction of sewers in the following streets: Atwell Ave. and right-of-way from Woonasquatucket River to present end of sewer in Kingsley Ave.; estimated cost, $19,646; Silver Lake Ave., from Plainfield St. to Union Ave.; Union Ave., from Silver Lake Ave. to Pocasset Ave., and Whittier Ave., from Laurel Hill Ave. to present end of sewer in Whittier Ave.; estimated cost, $8,255. Robert W. Greene is City Engr.

BRONXVILLE, N. Y.—Bids will be received by Frank Dinsmore, Village Clk., until Oct. 18, for the construction of a sewer in Avon Road.

FLUSHING, N. Y.—Plans have been completed for the construction of sanitary and storm water sewer for the Ingleside Browne Park and Broadway Flushing districts. John H. Deinberger., Dept. of Highways, is Ch. Engr.

ROCHESTER, N. Y.—The contract for the Ellicott St. sewer has been awarded to H. N. COWLES at $18,575.

ROCHESTER, N. Y.—The State Board of Health has approved plans for the construction of an intercepting sewer to carry the sewage to the purification works in Irondequoit and thence into Lake Ontario. Edwin H. Fisher is City Engr.

BROOKLYN, N. Y.—Bids will be received by Alfred E. Steers, Pres. of the Borough of Brooklyn, until 11 a. m., Oct. 26, for the construction of sewers and sewer basins in various streets.

ASBURY PARK, N. J.—The contract has been awarded to S. L. BARTHOLOMEW, Asbury Park, N. J., for the construction of 50 manholes and 29 flush tanks.

NEWARK, N. J.—The contract for the construction of the Clinton Annexation sewers, Section 4, has been awarded to D'AMATO & STEFANELI, 74 Sumner Ave., at $8,018. Morris R. Sherrerd is City Engr.

PERTH AMBOY, N. J.—Bids will be received by the City Council until 8.30 p. m., Oct. 17, for the construction of a 15-in. pipe sewer in Crompton Ave., from Amboy Ave. to Groom St. Forrest L. Smith is City Engr.

SOUTH AMBOY, N. J.—Bids are being asked for laying 10,000 ft of 6-in. lateral sewer; also for the extension of sewers in various streets. R. P. Mason is City Engr.

WOODBURY, N. J.—Bids have been received by Arthur Starr, City Clerk, for laying 7,700 ft. 8-in. sewer pipe as follows: B. F. Sweeten & Son, Camden, N. J., $17,057; Donato Delise, Philadelphia, Pa., $17,420; Cantrell Construltion Co., Philadelphia, Pa., $17,438; J. C. Schrade, Summit, N. J., $28,054. Contract has been awarded to B. F. SWEETEN & SON, Camden, N. J.

WILKINSBURG, PA.—Contracts for storm sewers in Kelly Ave. and Ecker Way have been awarded to McCRADY BROS., Braddock, and for Todd and Lanar Sts. and Penn Ave. to the SAWDERS CONSTRUCTION CO., Pittsburg. The contracts total about $12,000.

WILMINGTON, DEL.—An ordinance has been passed by the City Council appropriating $30,000 for the construction of trunk sewers in the Ninth Ward. Alexander J. Taylor is City Engr.

PARKERSBURG, W. VA.—Bids will be received by the Board of Affairs until 8 p. m., Oct. 13, for the furnishing of material and labor for the construction of sanitary sewers from Latrobe to Dudley Ave.; on 15th St., from Latrobe to Park St.; on Staunton Ave., from Bird St. to Agnes St., and for the length of Lulu and Andrew Sts. Frank Good is City Audr.

WHEELING, W. VA.—See item under Streets and Roads.

ATLANTA, GA.—The contract has been awarded to THE LOCK JOINT PIPE CO., 165 Broadway, New York, for furnishing machinery on 13,000 ft. extension of the Proctor Creek sewer at 40 cts. per ft.

ATLANTA, GA.—Bids are being asked by the sewer committee for the construction of a disposal plant at Proctor Creek. Estimated cost, $105,000. R. M. Clayton is City Engr., and Herring & Fuller, New York, are the Consulting Engrs.

*EASTMAN, GA.—Bids will be received by J. D. Herrman, Mayor, until 7.30 p. m., Nov. 1, for the construction of nine miles of 8-in. to 12-in. pipe sewers, with necessary manholes and flush tanks.

ORLANDO, FLA.—See item under Light and Power Plants.

URBANA, OHIO.—The city is having estimates prepared for the proposed Ward St. sewer improvement which will extend from East Lawn Ave. to the Pennsylvania Railroad tracks. The plans call for 1,306 ft. of 24-in. concrete sewer east of East Lawn Ave. and 4,100 ft. of 42-in. sewer on Ward St. Inlets are provided at Locust and Main Sts. C. E. Pratt is City Engr.

*BELLEFONTAINE, OHIO.—Bids will be asked until noon. Oct. 25, by the Director of Public Service for the construction of Sections 1 and 2 of the Sanitary Sewer System.

DAYTON, OHIO.—The following contracts have been awarded by J. C. Ely, Director of Public Service: HECKERT & KIRSHMER, 23 Ashley St., Dayton, Ohio, for constructing the Glendale sewer and SHAFFER & HILL, 242 West Homestead Ave., Dayton, Ohio, the Sixth St. sewer at $6,500. Fred. Cellarius is City Engr.

DUNDEE, ILL.—Bids will be received until Oct. 15 for the construction of a sewer system in West Dundee. The cost is estimated at $15,000 by Edgar K. Wilson, Elgin, Ill., Engr. A. G. Sheckien is Pres. of Bd. of Trustees.

MOLINE, ILL.—The contract has been awarded by the Board of Local Improvements to CHARLES A. BERGLUND for the construction of a sewer in the southwest district of the Fifth Ward sewer extension. Estimated cost, $13,785. Clark G. Anderson is City Engr.

HIGHLAND PARK, ILL.—Contract has been awarded by J. Finney, City Clerk, to E. R. HARDING & CO., Racine, Wis., at $10,000, for the construction of disposal plant in district.

*LEWISTON, ILL.—Bids will be received by the Board of Local Improvements until 12 M., Oct. 20, for the construction of a sanitary sewer system. H. J. Efnoris is Clk.

EAST ST. LOUIS, ILL.—Bids will be received until 12 m., Oct. 19, by Silas Cook, Pres. Bd. Local Impt., for street and sewer improvements as follows: 4,560 lin. ft. pipe sewer, 6-in. to 15-in.; 4,850 lin. ft. curbing, and 9,020 sq. yds. vitrified brick paving. W. J. Crocken is City Engr.

MARINETTE, WIS.—All bids received by the city for laying a sewer from the river to Jefferson St. were rejected. The bids submitted were all far in excess of the figures prepared by the City Engineer.

INDIANOLA, IOWA.—The contract has been awarded the LIDEL CONSTRUCTION CO., Sioux City, Iowa, for laying 6,447 ft. 10-in. sewer pipe, 12,087 ft. 8-in. and 1,258 ft. 6-in. A. H. Gilliland is City Engr.

EMMETSBURG, IOWA.—Bids will be received until Oct. 25 by T. E. Rutledge, City Clk., for constructing sewers, repairing 4,792 ft. sewer, of salt-glazed vitrified pipe, eleven manholes and five flush tanks.

WATERLOO, IOWA.—The contract for constructing sewers on Dawson, Cutler and other streets has been awarded to DEARBORN & JACKSON, Cedar Rapids, Iowa, at $8,875.

HAMPTON, IOWA.—The contract for the construction of a sewage disposal plant has been awarded to J. R. McCORMICK at $4,500.

HAWARDEN, IOWA.—The contract has been awarded by the City Council to ROBERT & FEN, Brookings, S. Dak., for the construction of a sewage system at $16,914.

WEST LIBERTY, IOWA.—Bids will be received until 3 p. m., Oct. 25, by Irwin Aikin, Town Clerk, for the construction of a sewerage system involving the following quantities: Vitrified pipe, 955 ft. 18-in.; 3,680 ft. 15-in.; 1,640 ft. 12-in.; 3,000 ft. 10-in.; 18,600 ft. 8-in., and 200 ft. 16-in. c.-i. pipe; also 69 manholes and 20 flush tanks. A separate contract will be made for the septic tank and filters. The Iowa-Engineering Co., Clinton, Iowa, has charge of the work.

ABERDEEN, S. DAK.—Plans have been prepared by the City Engineer for the construction of a sewer system. Estimated cost, $75,000.

KANSAS CITY, MO.—A survey is being made by Carl Trowbridge, Asst. Engr., for the construction of a sewer in Woodland Boulevard, Ruby and Metropolitan Aves. Estimated cost, $20,000. J. L. Dawall is City Engr.

NEWPORT, ARK.—The contract for laying about seven miles of sewers has been awarded to GEO. GARDEN and WILLIAM NOBLE, Paducah, Ky. The cast will be about $40,000.

GUTHRIE, OKLA.—The contract has been awarded by the City Council to W. E. POWER for the construction of the storm sewer in District No. 5.

MUSKOGEE, OKLA.—A survey has been made by City Engr. Clonts for the proposed intercepting sewer to carry the sanitary sewage to the Arkansas River. L. B. Kinsey is City Engr.

STERLING, COLO.—The contract has been awarded to THOMAS McGOVERN for the construction of four sewers at $11,720.

SEATTLE, WASH.—See item under Streets and Roads.

SEATTLE, WASH.—See item under Water Supply—Irrigation.

MONROE, WASH.—The Council has passed a resolution providing for the construction of a sub-sewer line either of clay or concrete sewer pipe in portions of Wood St. The cost is estimated at $5,970.

EVERETT, WASH.—The contract has been awarded to the ATLAS CONSTRUCTION CO. for the construction of the sewer between Colby and Hoyt St. at $4,000.

BROWNSVILLE, ORE.—The Council has passed a resolution providing for the construction of a sewer system within the city of Brownsville, Ore., to commence 100 ft. south of Kirk Ave., thence to Pine from Averill St. to North Main St.

SALEM, ORE.—The contract has been awarded to A. BURNS, Spokane, Wash., for the construction of the North Salem sewer at $87,952.

LONG BEACH, CAL.—The City Council has passed an ordinance providing for the construction of sewers in Alamitos Ave. and all streets west to a point where sewers are already installed. W. A. Foster is City Engr.

SANTA CRUZ, CAL.—Contract has been awarded to McFADDEN & BYRNS for constructing sewers in Soquel Ave. and Front St. N. E. Williams is City Engr.

PORTERVILLE, CAL.—The contract for the labor and material of 15 miles of sewer was awarded to J. W. TERRELL, Chico, Cal., at $19,812. The contract for sewer pipe was let to GLADDING, McBEAN & CO., Crocker Bldg., San Francisco, at $14,-586.03.

STREETS AND ROADS.

(* *Denotes that this work is advertised in Engineering News.*)

GORHAM, N. H.—The contract for building the Gorham section of the East Side state road has been awarded to STEWART & SNODGRASS, of Berlin, at $7,295.

WESTON, MASS.—The contract for road construction in Weston was awarded by the Middlesex County Commissioners, Levi S. Gould, Chn., on Oct. 10, to FRANCIS J. MAGUE, of West Newton, at $4,903. Other bidders were: A. de Pollito, Boston, $5,-127; Jose Morrel, North Attleboro, $5,135; Fred E. Ellis, Melrose, $5,605; William H. Mague, West Newton, $5,783; John A. Gaffy, Medford, $5,833; Peter J. O'Malley, Waltham, $6,279; H. W. Tarbell, Lowell, $6,-886.

BOSTON, MASS.—We are officially advised that the contract for macadamizing road in Morton St. has been awarded to JAMES DOHERTY, 133 Calumet St., at $5,494. Bids were received on Oct. 7, by Louis K. Rourke, Supt. of Streets.

BOSTON, MASS.—We are officially advised that bids were received on Oct. 10 by Louis K. Rourke, Supt. of Streets, for macadamizing Old Colony Ave. The contract was awarded to JAMES DOHERTY, 133 Calumet St., Boston, at $11,658.

HARTFORD, CONN.—The contract for the construction of 6,984 lin. ft. of graded-telford road, including two 12-in. tile culverts and one reinforced-concrete arch culvert, bids for which were opened on Sept. 30, has been awarded by the State Highway Commissioner to THE PIERSON ENGINEERING & CONSTRUCTION CO., of Bristol, Conn., at $5,843, for the entire grading, with 75 cts. per lin. ft. extra for telford and 81 per lin. ft. for rubble drain.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., Oct. 20, for regulating and repaving with granite blocks on a concrete foundation, various streets and avenues in Long Island City.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Oct. 17, for the improvement of Myrtle Ave., from Ontario to Partridge St., the carriageway to be paved with repressed vitrified shale paving blocks on a concrete foundation. Walter Melius is City Engr.

The bids received on Oct. 3 by the Board of Contract and Supply, for the improvement of Cherry St., from Broadway to Franklin St., and for the improvement of Emmet St., from Broadway west, were: Cherry St., Mulderry Bros., $11,019; Edward F. Dillon, $12,709; John M. Holler, $11,581; Michael F. Dollard, $10,608. Emmet St., Edward F. Dillon, $13,395; John M. Holler, $12,957; MICHAEL F. DOLLARD, $12,026 (awarded contract). The bidders were all of Albany. Walter Melius is City Engr.

NEWARK, N. J.—The contract for paving Ridgewood Ave., from Bigelow St. to Runyon St., was awarded to P. & P. JANNARONE, Passaic Ave., at $7,739.

The contract for grading, curbing and flagging South St., from Pacific St. to Tyler St., has been awarded to ALEX. J. MILMOE, 83 Littleton Ave., at $8,583.

*WESTFIELD, N. J.—Bids are asked until 8.15 p. m., Nov. 7, by the Town Council, 121 Prospect St., for improving certain streets in Westfield. Lloyd Thompson is Town Clk. For details see advertisement in this issue.

*CHESTER, PA.—Bids will be received by Samuel McClure, Chn. of Street Com., until 7.30 p. m., Oct. 17, for paving several streets, list of which is given in the advertisement in this issue. C. B. Mould is City Clk.

PITTSBURG, PA.—Bids will be received until noon, Oct. 27, by R. J. Cunningham, Controller of Allegheny County, for the improvement of Ardmore and Guy's Run roads. S. D. Foster is County Rd. Engr., 312 Courthouse, Pittsburg.

HARRISBURG, PA.—Bids are asked by W. W. Caldwell, State Highway Comr., until noon, Oct. 13, for paving about 54 streets, which will include 79,853 sq. yds. of paving and 67,079 lin. ft. of curbing. The cost is estimated at $224,562.

WILKINSBURG, PA.—Frease & Sperling, Boro. Engrs. of Wilkinsburg, have let a contract to McDIVITT & STEELE, of Wilkinsburg, for grading, curbing and paving with vitrified brick Rebecca Ave., from the present paving to the Laveen plan of lots in Wilkinsburg, and for the grading and paving of Culp Way from Wood St. to Pitt St.

BALTIMORE, MD.—The State Roads Commission recently awarded the following contracts for work in different parts of the state: Frederick County, between Knoxville and Petersville, 4.43 miles, COBLENTZ & CLIFT, Frederick, Md., $32,606; between Petersville and Jefferson, 2.67 miles, M. J. GROVE, Limekiln, Frederick County, Md., $51,597; Harford, between Conowingo Bridge and Dublin Cross Roads, 4.24 miles, $34,-732, and between the Baltimore County line and Belair Turnpike, 2.76 miles, J. E. SPENCER, Aberdeen, Harford County, Md., $26,122; Cecil, between Elkton and Back Creek Road, 3 miles, JUNIATA PAVING CO., Empire Bldg., Philadelphia, Pa., $31,-646; between Chesapeake City and Back Creek Road, 2.47 miles, S. S. ANDREWS, Cambridge, Md., $28,006; the Annapolis Boulevard, between the Severn River bridge and Arnolds Station, 3.2 miles, F. M. DUVALL, Annapolis, Md., $46,521.

FAIRMONT, W. VA.—S. B. Miller, City Engr., has prepared the estimates for paving on Ogden Ave., Grafton St., Pierpont Ave. and part of High St., for submission to the City Council. The estimated cost is $7,000.

ELM GROVE, W. VA.—The contract for the paving of Cruegger St., in Elm Grove, from the intersection of the dividing line between the town of Patterson to the Elm Grove school, has been let to GEORGE LEMMON, of Wheeling, at 93 cts. a sq. yd.

WHEELING, W. VA.—A petition was presented to the City Council for the widening of Market and Fourth Sts. in Wheeling for a distance of several blocks and for the laying of 500 ft. of 20-in. sewer to give sanitary service to the parts of the city effected by the widening of the streets. C. B. Cooke is Engr. and D. G. Brown, Clk. of the Bd. of Control.

ROME, GA.—The City will vote on Nov. 8 on $5,000 bond issue for street improvements. T. W. Lipscomb is Mayor.

BIRMINGHAM, ALA.—The City Council has approved plans for paving Eighth Ave., from 13th to 18th Sts.; from West 20th to 26th Sts.; from 14th to 19th Sts. Also for paving Cliff Road and streets around Rhodes Park and for the construction of a boulevard at Palmer St. to cost $52,000. Maury Nicholson is City Engr.

JACKSON, TENN.—The City Council adopted bitulithic material for paving and awarded the contract to the SOUTHERN BITULITHIC CO., of Nashville, at $58,000.

NASHVILLE, TENN.—The contract for paving Eighth Ave., between Broadway and Lea Ave., has been awarded by the Board of Public Works to the ADAMANT STONE & ROOFING CO., 111 First Ave., South, Nashville, at 57 cts. a sq. yd.

The FOY-PROCTOR CO. was awarded the contract recently by the Board of Public Works for constructing about 36,000 sq. ft. of new sidewalk on various streets of the central section of the city, at 9 cts. a sq. ft.

LOUISVILLE, KY.—The Board of Public Works has awarded a contract to the BARBER ASPHALT CO., at $9,000 for the paving of Fifth St., from Main to Market Sts., and Broadway, from Underhill to 665 ft. east with asphalt.

CANTON, OHIO.—The City Council has adopted resolutions declaring it necessary to improve North Cherry St., from Lawrence Ave. to Hiram St.; Hiram St., from Cherry St. to Market St.; East Lake St., from St. Elmo St. to Mahoning St. P. H. Weber is City Engr.

CINCINNATI, OHIO.—Bids were opened on Oct. 4, at the office of the County Commissioners for the macadamizing of the Lawrenceburg and Harrison Road as follows: B. NIEHAUS, $18,585 (awarded contract); F. E. Schraeder, $27,857. The estimated cost was $28,562. Other contracts awarded were: N. RUEBEL, improvement of Gurley Road, Queen City Ave. to Glenway Ave., $8,554; N. RUEBEL, improvement of Race Ave. with culverts and drains, $4,522; JOHN NICKOSON, improvement of South Ave. and Werk Road, Cleves and Bridgetown pike to Cleves and Warsaw pike, $7,750. Fred Driehs is Clk. of Bd.

CLEVELAND, OHIO.—We are officially advised that the contract for repairing the Detroit Road, by paving it with asphalt, bids for which were received on Oct. 1, has been awarded to the CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, at $8,726. John F. Goldenbogen is Clk. of Bd. of County Comrs.

COLUMBUS, OHIO.—Bids will be received on Oct. 21 by the Director of Public Safety for the construction of sidewalks on portions of the following streets of Columbus: Center St., Cozzins St., Chittenden Ave., East Ave., Fulton St., Fourth St., Franklin Ave., Long St., Lexington Ave., Mt. Vernon Ave., Northwood Ave., Oakland Ave., Summit St., Tappan St., West Park Ave. and Wilcox St.

HAMILTON, OHIO.—The bids received on Sept. 27 by James C. Wonders, State Highway Comr., of Columbus, for the improvement of Venice Road, have been rejected as being excessive. New bids will be asked for later on.

MARIETTA, OHIO.—The contract for paving the roadway from Waterford west, has been awarded by the Board of County Commissioners to FRANK BECKWITH, of Malta, at $10,893. The estimated cost was $10,998. J. W. Pryor is Pres. of Bd.

POMEROY, OHIO.—Bids were opened on Oct. 6 at the office of the County Commissioners for the improvement of the Rutland-Pomeroy Road as follows: George Bowers, Middleport, $4,399; Juniper & Nixon, McArthur, Ohio, $4,490; George Bauer, Pomeroy, $4,616. Because of a misunderstanding over the use of the steam roller, it was decided by James C. Wonders, State Highway Comr., to readvertise for bids.

TOLEDO, OHIO.—The County Commissioners recently let the contract for completing the unfinished portion of the "Corduroy Road" in Oregon Township to McKINNEY BROS. and M. F. O. SULLIVAN at $19,432. Belle View stone will be used.

GARY, IND.—The Gary Land Co. has let the contract for the laying of cement walks in front of its property on the west side of Washington St., between Fifth Ave. and the Wabash R. R. tracks, on both sides of Sixth Ave., from Broadway to Carolina St. and on both sides of Eighth Ave., between Broadway and Tyler St., to CREUTZ & JAMES.

RUSHVILLE, IND.—The Commissioners of Rush County will receive bids until 2 p. m., Nov. 10, for the construction of a gravel road in Ripley township and a macadam road in Noble Township. Also for the construction of the following highways: The Offet road in Pasey Township, by grading and paving with gravel; the Charles Leisure road on the line between Pasey and Ripley Townships, by grading and paving with broken stone; the James Brown road in Anderson Township, by grading and paving with broken stone. Jesse M. Stone is Audr.

VERNON, IND.—Bids will be received by the Commissioners of Jennings County, until 11 a. m., Nov. 7, for the construction of $2\frac{1}{2}$ miles of pike road in Bigger Township. T. I. Thomas is Audr.

KOKOMO, IND.—The Commissioners of Howard County received bids on Oct. 5 for the construction of a 3-mile gravel road in Honey Creek Township and awarded the contract to JAMES M. SNYDER, of Frankfort, at $7,790. A. B. Easterling is County Audr.

*SIDELL, ILL.—We are officially advised that the following bids were received on Oct. 3 by the Board of Local Improvements for improving Gray St.: (A) The Advance Construction Co., of Waukesha, Wis.; (B) McCurdie & Mauphin, Alton, Ill.; (C) The INTERURBAN CONSTRUCTION CO., Danville, Ill., (awarded contract); total bid, $29,384. (A) Paving, $1.54 a sq. yd.; curb and gutter, 50 cts. a lin. ft.; stone curb, 45 cts.; Marginal curb, 25 cts.; inlets, $25. (B) Paving, $1.51 a sq. yd.; curb and gutter, 50 cts. a lin. ft.; stone curb, 44 cts.; Marginal curb, 25 cts.; inlets, $23.50; manholes, $25. (C) Paving, $1.49 a sq. yd.; curb and gutter, 49 cts. a lin. ft.; stone curb, 40 cts.; Marginal curb, 25 cts.; inlets, $22; manholes, $25. William G. Cathcart is Pres. of Bd. and Walter E. Winn is City Engr.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Public Improvements until Oct. 19 for improving five streets.

RACINE, WIS.—Bids are asked until Oct. 29 by the Board of Public Works for paving various streets.

LINCOLN, NEB.—Bids are asked until noon, Oct. 14, by Roscoe C. Ozman, City Clk., for paving the roadway in paving district No. 113.

OKLAHOMA CITY, OKLA.—The Paving Committee of the City Council on Sept. 26 awarded contracts as follows for $1,000,000 paving contracts: To SHELBY-DOWNARD CO., Ardmore, contract for $124,360; to CLEVELAND TRINIDAD PAVING CO., Cleveland, Ohio, contract for $34,383; to WESTERN PAVING CO., contract for $391,-939.

SEATTLE, WASH.—Bids will be received by C. B. Bagley, Secy. Pub. Wks., until Oct. 14, for the following street improvements: Rainier Ave., grading, $32,500; alley in Block 30, heirs of S. A. Bell's Second Addition, grading, $1,100; alley in Block 17, Boren Denny and Yesler's Addition, paving, $3,450; Graham St., planking, $6,900; East John St., paving with brick, $2,500; Lane St. and other streets, concrete walks, $4,600; 26th Ave. and other streets, sewers, $20,000.

Bids for the improvement of Alki Ave. and other streets by grading, filling, rip-rapping, etc., will be received until Oct. 21. Estimated cost, $115,000.

SEATTLE, WASH.—See item under Water Supply—Irrigation.

SEATTLE, WASH.—The Board of Public Works on Oct. 4, awarded the following contracts for street improvements: East 76th St. and other streets, concrete walks, to DEFLONG & CO., 321 Pacific Block, at $4,847; University St. and other streets, paving with brick, etc., to HANS PEDERSON, 1226 Alaska Bldg., at $3,009. Other bidders were: Allain & Hull, $31,780; John G. Pierce, $30,926; Ferguson-Colt Co., $32,147. Whatcom Ave. and other streets, planking, to P. B. CHURCH, Central Bldg., at $5,327.

SPOKANE, WASH.—The Board of Public Works will receive bids until 2 p. m., Oct. 31, for the improvement of portions of Lincoln St. and other streets.

TACOMA, WASH.—The LISTER CONSTRUCTION CO. was awarded contract by the city on Sept. 22 to grade and lay cement concrete sidewalks on North Seventh St., from K to O St.; North Sixth St., from M St. to Sheridan Ave., and M St. and Sheridan Ave., from North Sixth St. to Eighth St, at $9,-690. Other bids follow: N. A. Jones, $10,-333; Charles A. Maxham, $9,800; Wright & Sweeney, $9,986; Barbett Construction Co., $9,695; Keasel Construction Co., $9,348.

ROSEBURG, ORE.—Bids for asphalt street paving aggregating a total of $16,730, were accepted by the City Council from the CLARK-HENERY CONSTRUCTION OO. The Council also accepted from the City Engineer his estimates of $10,720 for the proposed paving of five blocks in the Chadwick Addition.

LOS ANGELES, CAL.—The following bids have been received by the County Board of Supervisors for improving a section 11,712 ft. in length of the Monterey Pass Road: A. C. St. John, 1017 Ingraham St., $8,100 for grading and constructing culverts; $2 per ton for placing oiled macadam paving, $15 per cu. yd. for Class A concrete; Class B, $13; reinforcing steel, 5 cts. per lb.; F. F. Prendergast, $11,000 for grading and constructing culverts; $1.75 per ton for paving; Class A concrete, $16; Class C, $15; steel, 6 cts. per lb. The amount of oil macadam paving required is 8,332 tons.

SAN ANSELMO, CAL.—The Trustees have awarded contract for macadamizing roads in Sections D and E to the NARIN ROCK CO., at $3,800 and $9,800, respectively.

FRESNO, CAL.—The Trustees have passed a resolution of intention for paving with asphalt concrete pavement K St., from Merced to Stanislaus Sts. W. H. Ryan is City Clk.

OAKLAND, CAL.—Bids are asked by the Board of Public Works, until 10 a. m., Oct. 19, for furnishing the necessary labor and materials for and in the improvement of the northern side of Twelfth St. betw... St. and Lake Shore Boulevard. ... Nelson is Secy.

OCEAN PARK, CAL.—Bids will ... by G. G. Watt, until Oct. 17 ... paving and curbing the followi... Park Row, Zephyr Ave., Innes ... Ave.; also for the construction ... gutters, concrete retaining walls ... grading, paving and curbing ... Boulevard, Horizon Ave., Thornton ... Wave Crest Ave., and for the co... of gutters, sidewalks, sewers and c... along said streets.

MANUFACTURING PLA...

(* *Denotes that this work is ad... Engineering News.*)

NATICK, MASS.—The C. W. Dea... Cochituate, Mass., will shortly begi... struction of a factory on North ... Natick, preparatory to removing th... there from former location.

PAWTUCKET, R. I.—We are offic... vised that the contract for constru... addition to the sawtooth plant of th... konk Lace Co. has been awarded ... FRANK G. ROWLEY CO., of Paw... The structure will be fireproof, 90 × ... and is to cost $15,000.

NEW YORK, N. Y.—The I. B. K... Rubber Co., of College Point, will ... building 100 × 100 ft. to its present ... the new building to be located at the c... of 18th St. and Fifth Ave., College ... and to cost $10,000.

BUFFALO, N. Y.—We are officially advised that MORRIS & ALLEN, Builders' Exchange, Buffalo, have been awarded the contract for erecting two additional warehouses, 60 × 200 ft. each, for the Beaver Co., at its plant, Beaver Road and New York Central R. R., North Buffalo. The foundation has been laid and the construction work has started.

BUFFALO, N. Y.—The Niagara Machine & Tool Co., Superior and Randall Sts., will build a 1-story brick and steel blacksmith and machine shop at its new plant on Northland Ave. and the N. Y. Central R. R. Belt Line. Geo. A. Lantz, Pres.

The Buffalo Box Factory, James Fenton, Pres., will add to its plant at Babcock and Scoville Sts. and the Pennsylvania R. R., a 2-story brick addition, 80 × 100 ft., for the manufacture of corrugated paper shipping cases. The machinery equipment required, which is of special design, has been ordered.

PATERSON, N. J.—The American Reinforced Cloth Co. has been incorporated at Paterson to manufacture cotton, linen and silk. The capital stock is $100,000. Frederick W. Ball, of Paterson; Henry Kunn and Peter Orance, of Brooklyn, N. Y., are the incorporators.

PHILADELPHIA, PA.—Spencer Roberts, 26 South 15th St., is planning to construct a 2-story garage and factory, 60 × 104 ft., at 37th and Ludlow Sts., for the Loraine Motor Co.

PHILADELPHIA, PA.—P. J. GAFFNEY & CO. have the contract to erect a 2-story addition, 290 × 60 ft., to the plant of Jonathan Ring & Sons, Hancock St. and Montgomery Ave.

PITTSBURG, PA.—It is reported that the contract for constructing a 10-story fireproof storage warehouse at Center and Euclid Aves,. from plans drawn by F. J. Osterling, Arch., 316 Fourth Ave., Pittsburg, for Haugh & Keenan, 5914 Center Ave., has been awarded to W. F. TRIMBLE & SONS, 1719 Greenwood Ave. Estimated cost, $50,000.

BALTIMORE, MD.—The Simpson & Doeller Co. lithographers and engravers, have commissioned Otto G. Simpson, Arch., American Bldg., to prepare plans and specifications for the proposed factory building to be erected at Milton Ave. and Lanvale St. The building will cost about $150,000 and will be about 240 ft. square. The construction will be of reinforced concrete.

BALTIMORE, MD.—Plans have been completed by Kennith M. Murchison, 320 Fifth Ave., New York, for the proposed train shed to be erected at the Union Station for the Pennsylvania R. R. Co. The structure will cover the tracks a distance of 700 ft., with a width of 100 ft. It will be of structural steel construction, with copper fittings and wired glass covering and steel columns. Alexander Shand, Ch. Engr. of the P. R. R., is to supervise the work.

Daniel A. Leonard, Pres. of the Baltimore Siegwart Beam Co., 15 East Fayette St., is negotiating for a site for the erection of a factory to manufacture cement and concrete products.

HIGHLANDTOWN, MD.—The ENGINEERING-CONTRACTING CO., 502 St. Paul St., have been awarded the contract for the erection of a bottling plant, to be erected in Highlandtown, for the George Gunther Brewing Co., from plans by Otto G. Simonson, American Bldg. It will be one story, of brick, with slag roof, steam heat, gas and electric lighting, and is to cost about $75,000.

SELMA, ALA.—A fertilizer factory, which when completed will represent an expenditure of $150,000, is to be built here. The factory will be one of the branch plants of the Tennessee Chemical Co., of which T. G. Tinsley, of Nashville, is Pres.

ALEXANDRIA, LA.—The Armour Packing Co. will let the contract soon for the erection of a $35,000 building here. It will be a 3-story brick and will be fitted with coolers for meats and large storage departments.

STURGIS, KY.—The WISCONSIN BRIDGE & IRON CO., Monadnock Block, Chicago, Ill., Andrew Allen, Contracting Engr., has the general contract for erecting a coal tipple screening plant and head frame for air hoist, boiler and engine house, for the West Kentucky Coal Co. at Sturgis. W. H. Cummings, Engr., Manager of Mines, is in charge of power equipment.

CLEVELAND, OHIO.—Bids will be received by the Board of Trustees of the Girls' Industrial Home until noon, Nov. 3, for the con-

struction of a brick laundry building in accordance with the plans and specifications prepared by Marriott & Allen, Archs., 20 East Broad St., Columbus. S. D. Webb is Supt.

FRANKLIN, OHIO.—John F. Moloney, former superintendent of the Champion Coated Paper Co., of Hamilton, and Walter Symmes recently closed a deal with the City Council of Franklin, where their proposed $200,000 coated paper mills will be located.

NILES, OHIO.—An addition to the plant of the Sharon Iron & Steel Co., in this city, is being planned, to cost about $200,000, it is stated.

ASHLAND, OHIO.—SCHELL & BAKER, Contractors, of Mansfield, were awarded the contract, recently, for erecting the new foundry for F. E. Myers & Bro., at Ashland, for $..200.

CUMMINSVILLE (Cincinnati post-office), OHIO.—The Grimm Architectural Iron Works Co. recently purchased property on Dreman Ave., Cumminsville, and plans to erect a factory, 75 x 200 ft. Estimated cost, $15,000.

EAST YOUNGSTOWN, OHIO.—Directors of the Youngstown Steel & Tube Co., 307 Fifth Ave., Pittsburg, Pa., have authorized plans for a new open-hearth tube plant at East Youngstown, at a cost of $4,500,000, it is stated.

HAMILTON, OHIO.—James K. Cullen, Pres. of the Niles Tool Works, Hamilton, announced, recently, that the contract for the construction of the $500,000 improvement to the local plant had been awarded to McLINTIC MARSHALL CONSTRUCTION CO., Pittsburg, Pa. There were 12 bidders. Work is to be commenced at once, and the addition is to be completed in five months. The addition will increase the present capacity 40%.

TOLEDO, OHIO.—The Bunting Brass & Bronze Co., of Alliance, manufacturers of heavy brass and bronze castings, has outgrown its quarters in Alliance, and plans the construction of a plant in Toledo. Arrangements have been made through the newly organized Real Estate Board, the Business Men's Club and the Chamber of Commerce for the proposed structure. William Bunting is Pres., and Irving B. Hiett is Pres. of the Real Estate Bd.

TOLEDO, OHIO.—Plans have been prepared by G. A. Miller, Arch., of Detroit, for buildings covering a lot of 80 ft. on Superior St., for the Bavarian Brewing Co., whose plant is on Superior St., between Washington and Lafayette Sts. A bottling plant, 30 × 120 ft., two stories high, will be erected, and adjoining it there will be built a 5-story structure 50 × 120 ft., to be used for storage purposes. Estimated cost, $50,000.

EDGEMONT (Cincinnati post-office), OHIO.—The Thomas Mfg. Co. has purchased a 5-acre tract in Edgemont, adjacent to the Speedwell Motor Works, and will erect thereon a $100,000 mail-order factory.

INDIANAPOLIS, IND.—The Indiana Refrigerating Co. has been incorporated with a capital of $100,000 to build and equip a general storage and cold storage plant here. William J. Hogan, E. B. Kurtz and James Noll are the Dirs.

HAMMOND, IND.—William R. Gibbs, Arch., 169 Jackson Boulevard, Chicago, Ill., awarded the general contract to M. A. DICKOVER, of Hammond, for a 2-story building, 50 × 100 ft., for the Woodhull Ice Cream Co., Hammond. It is to be of brick construction, with cement floor.

LUDINGTON, MICH.—W. F. Mikesell, Main St., Ludington, is contemplating building a canning factory to replace the one recently destroyed by fire.

DETROIT, MICH.—Smith, Hinchman & Grylis, Archs., 710 Washington Arcade Bldg., will soon receive estimates on a factory addition for the Hargreaves Mfg. Co., at 18th and Porter Sts. The building is to be constructed of brick, steel, structural iron, with composition roof and electric fixtures.

E. R. Olds, of the Olds Motor Works, of Lansing, Mich., is interested in a new concern, with a capital of $1,000,000, for the manufacture of motor trucks. The company has been incorporated and will soon select a site in Detroit for a large plant.

Smith, Hinchman & Grylis, Archs., 710 Washington Arcade Bldg., will soon take estimates on a brick factory building, 64 × 96 ft., and a shed, 20 × 175 ft., for the C. W. Kotcher Lumber Co., 643 Gratiot Ave. The same architects will probably be commissioned to prepare plans for a new dry kiln for the C. W. Kotcher Lumber Co.

The Evans Motor Car Co., R. H. Evans, Pres., 86 Edmond Pl., is having plans prepared for a factory building, two stories and basement, 55 × 60 ft. The building is to be of brick and mill construction, for the manufacture of auto parts.

BENTON HARBOR, MICH.—Tallmadge & Watson, 188 Madison St., Chicago, Ill., will receive estimates soon on a new factory building for the Baker-Vanter Co., 143 Dearborn St., Chicago. The building will be of brick and mill construction, two stories, 57 × 137 ft., and heated by steam. Cost, $20,000.

CHARLEVOIX, MICH.—The Soper Engineering Co., 628 Ford Bldg., Detroit, is preparing plans for a steel factory, 60 × 500 ft., for the Standard Cement Co., of Charlevoix. E. L. Buell, 224 Michigan Ave., Detroit, is Secy.

SAGINAW, MICH.—C. L. Cowles, Chase Bldg., Saginaw, is preparing plans for a 3-story tannery, 80 × 130 ft., for F. W. and F. Carlisle, of Saginaw. Bids will be received soon. Cost, $32,000.

SAGINAW, MICH.—The contract for erecting an addition, 80 × 130 ft., to the tannery of F. W. Carlisle & Co., on North Washington Ave., has been awarded to SPENCE BROS. The building will be used mainly for storage purposes and will contain 96 vats. It will be three stories in height and will be equipped with a sprinkler system of fire protection. The plans were drawn by C. L. Cowles, 21 Chase Block, and George Mutscheller, both of Saginaw.

ARGO, ILL.—Plans involving ultimate centralization of the manufacturing department of the Corn Products Refining Company, at Argo, are well under way, according to a Director of the concern. Reports to the effect that the new works at that point will be doubled are confirmed. An additional unit to the one now in operation will give the company a grinding capacity of between 35,000 and 40,000 bushels of corn daily, and this can be increased later to 60,000 bushels' capacity.

LA SALLE, ILL.—Plans and specifications are now being drawn for improvements at the German-American Portland Cement Works, at La Salle, that will amount to almost $1,000,000. The entire plant is to be enlarged, thus increasing the working force of 225 men to double that number. According to the plans, the first improvement will be made in the kiln plant, which alone will cost in the neighborhood of $150,000. Work on this will begin about Jan. 1, and it will require almost a year to complete the job. After the kiln department has been enlarged work will at once begin on the other departments.

CHICAGO, ILL.—C. A. Eckstorm, Arch., 131 La Salle St., has awarded the structural steel work contract to GEORGE W. JACKSON, INC., for an 8-story factory, 100 × 125 ft., at Sangamon and Van Buren Sts., for L. Kiper & Son. It is to be of fireproof construction, with electric elevators and fireproof windows.

Fritz Foltz, Arch. 140 Dearborn St., has awarded the masonry and carpentry contract to MEILING & CO., 84 La Salle St.; roofing to WILLIAM MURDOCK; glazing to SPRAGUE-SMITH CO.; fire doors to S. H. HARRIS; heating to DAVIS CONSTRUCTION CO.; plumbing to JOHN KLOTZBACH; sheet metal work to L. BIEGLER; hardware to BULLARD & GORMLEY, and painting to W. D. CODY for an industrial plant at Union and 22d Sts., for Col. H. A. du Pont, of Wilmington, Del., Excelsior Supply Co., lessees. It will have 110,000 ft. of floor space, consisting of five manufacturing buildings and power house, to be built of reinforced concrete and brick construction.

CHICAGO, ILL.—H. R. Wilson & Co., Archs., 218 La Salle St., have awarded the masonry to JOHN W. SNYDER; carpentry to ROBERT GOLDIE; plastering to M. J. CURRAN; plumbing to C. J. STEIN; steam heating to L. H. PRENTICE; electrical work to FREEMAN & SWEET; painting to JOHN BOBBE; glazing to TYLER & HIPPACH; tile work to WILLIAM H. HOOPS; composition roofing to N. W. POWELL; sheet metal work to ILLINOIS ROOFING CO.; cement work to WILLIAM P. McEVOY, and structural steel work to LAUBENHEIMER CO., for a 4-story printing house at 25th St. and Prairie Ave., for the McMillan Publishing Co. It will be of fireproof construction.

W. A. Blonck & Co., Engrs., 279 Dearborn St., have awarded the general contract to the CARBONDALE MACHINE CO., Pittsburg, Pa., for a 20-ton refrigerating system for Reuckheim Bros. & Eckstein's new manufacturing building.

A. S. Alschuler, Arch., 39 Jackson Boulevard, will receive estimates after Oct. 17 on a 5-story building, 80 × 160 ft., at 37th St. and Chicago Junction Railroad, for the J. L. Metz Furniture Co. It will be of standard brick and mill construction, with fireproof windows, electric elevators, steam heating and automatic sprinkler system.

A. S. Alschuler, Arch., will also receive estimates after Oct. 17 for a 3-story factory, 70 × 100 ft., at 37th and Jasper Sts., for the Floor Cleaning Co., to be of standard brick and mill construction, with fireproof windows, electric freight elevator and steam heating.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., have awarded the masonry contract to A. & E. ANDERSON and carpentry to EDWARD SPEARING, for a 3-story factory, 95 × 425 ft., to cost $150,000, at 20th St. and Western Ave., for G. D. Glaser, 703 West Washington Boulevard. It will be of concrete, brick and mill construction, with steam heating, fireproof windows, electric freight elevator and plumbing.

CHICAGO, ILL.—McALLISTER & O'CONNOR, Engrs., 98 Jackson Boulevard, have the general contract for erecting a 30,000-bushel grain elevator for the Farmers' Elevator Co. at Meyers Station, Ill. It is to be of crib construction, with corrugated iron sheeting and will require one 15-HP. gasoline engine.

ROCKFORD, ILL.—Nimmons & Fellows, Archs., Peoples Gas Bldg., Chicago, have awarded a contract to RODERICK & McKENZIE, of Rockford, for a 1-story factory, 181 × 190 ft., for the J. L. Clark Mfg. Co., at Rockford. It is to be of concrete and brick construction.

MILWAUKEE, WIS.—Tentative plans have been prepared by the Kieckhefer Box Co. for a box board paper mill to be erected in this city next spring. The plant will be 150 × 400 ft. and four or five stories high. It will have a capacity of 90 tons of box board paper per day and will cost about $300,000 it is stated.

WATERLOO, IOWA.—The Cement Machinery Corporation, of Waterloo, has increased its capital from $50,000 to $100,000. It will build a factory at once for the manufacture of a new polygon mixer. H. B. Lichty is Pres. and L. H. Weideman is Secy.

MASON CITY, IOWA.—The Colby Motor Co., capitalized at $1,000,000, was incorporated here, and a factory for the manufacture of automobiles on land purchased near the city will be built. The building will be 150 × 450 ft. and five stories. J. H. Henry, Designer of the Henry Auto plant of Muskegon, Mich., will manage the factory. The incorporators are William Colby, I. W. Keller, A. H. Gale, G. W. Howland, J. W. Henry, of Muskegon, and James Colby, of Mason City.

NEW ULM, MINN.—Richard Griesser, 109 Randolph St., Chicago, Ill., is preparing plans for a $20,000 brew house at New Ulm for the John Hauslein Brewing Co. The owner is in charge of construction.

CAMDEN, TEX.—A lumber mill is to be erected at Camden by the W. T. Carter Lumber Co., which is asking for bids on a steel and concrete fireproof building.

GEORGETOWN, WASH.—H. G. Allen, representing the Prest-O-Lite Co., 229 East South St., Indianapolis, Ind., is to establish an office in the Chamber of Commerce, Central Bldg., Seattle, and supervise the construction of a branch factory on Fidalgo and Dabello Sts., Georgetown. The building will be 75 × 150 ft., of concrete.

SAN DIEGO, CAL.—The Standard Screen & Mfg. Co., 3110 South Main St., Los Angeles, is planning the erection of a door and window screen plant in San Diego. M. Sturgis and O. P. Kemp, officers of the company, are now inspecting the site with Leonard Coop, Secy. of the Industries Committee of the Chamber of Commerce.

HIGHLANDS, CAL.—The Brookings Lumber Co. will at once erect a box factory to replace the one recently destroyed by fire. Estimated cost, $30,000.

VERNON, CAL.—A tract of 25 acres in Vernon has been sold to W. E. Hampton, Pres. of Pacific Tank Co., the National Woodpipe Co. and Pacific Coast Planing Mill Co. The purchaser and his associates will erect plants. The Pacific Tank Co. will immediately erect a factory to employ 150 men and the other companies will build on the ground shortly.

LOS ANGELES, CAL.—At a meeting of the stockholders of the American Olive Co. in the office of Dr. L. J. Huff, Acting Pres., it was decided to erect a factory and equip it with up-to-date machinery on the site of the burned plant. The plant will be of concrete and fireproof. Estimated loss on old plant is now placed at $175,000.

MONTREAL, QUE.—A plant for the manufacture of paper, pulp and carbide on the Saguenay River, near Lake St. John, Que., is to be erected. The proposed new company is capitalized at $10,000,000. William Mackenzie, Pres. of the Canadian Northern Ry. Co., of Toronto, Ont., is interested.

NEW WESTMINSTER, B. C.—The Walsh Sash & Door Co. are planning the erection of a sash and door factory in this city, with a capacity of 1,000 doors a day. A small sawmill will be opened in connection with the new plant.

WINNIPEG, MAN.—Charles Reid, of Charles Reid & Son, paper box manufacturers, Hamilton, Ont., has purchased a site for a factory in Winnipeg, on Princess St., between Henry and Logan Aves., having a frontage of 100 ft., with a depth of 132 ft., at a cost of $30,000. A warehouse will be erected, costing $300,000.

WINNIPEG, MAN.—The Toronto Wire & Iron Works, Geo. B. Meadows, Pres., Toronto, Ont., will erect a 3-story branch building here.

MISCELLANEOUS CONTRACTS.

(* *Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

ELEVATOR.—Goshen, Ind.—The Goshen Elevator Co. will soon ask for bids for the installation of a new elevator.

HARBOR IMPROVEMENTS.—San Diego, Cal.—The Directors of the Panama Exposition have voted $250,000 for harbor front improvements.

FLUSHING MACHINE.—Seattle, Wash.—Bids will be received by C. B. Bagley, Secy. Bd. Pub. Wks., until 10 a. m., Oct. 14, for furnishing three flushing machines.

AUTOMOBILE.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., Oct. 20, for furnishing and delivering one automobile for parks, Boro. The Bronx.

DREDGING.—Seattle, Wash.—Bids for dredging Olympia Harbor, Wash., will be received by Capt. Arthur Williams, Corps. Engrs., U. S. A., until noon, Oct. 14.

FILLING.—Boston, Mass.—Bids will be received until Oct. 19 by the Park Commissioners, R. S. Peabody, Chn., Jamaica Plain, Mass., for filling Orient Heights playground.

*STEEL PIPE.—Washington, D. C.—Bids are asked until 2 p. m., Oct. 26, by the Commissioners of the District of Columbia for furnishing 1,218 ft. of 30-in. sheet steel pipe.

*DREDGING.—Wilmington, Del.—Bids are asked by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, until noon, Nov. 8, for dredging Tuckerton Creek and Toms River, N. J.

WHARF.—St. Andrews, Que.—Bids will be received until Oct. 26 by the Public Works Department, Ottawa, Ont. (R. C. Desrochers, Secy.), for constructing a wharf here.

DREDGING.—San Francisco, Cal.—Bids will be received by Brig.-Gen. Charles E. L. B. Davis, Corps Engrs., U. S. A., until noon, Oct. 21, for dredging in Petaluma Creek, Cal.

DRAINAGE CANAL.—Thornwell, La.—Land owners in this vicinity have formed a drainage district and have voted $30,000 of bonds for the construction of a drainage canal.

FIRE APPARATUS.—New York N. Y.—Bids will be received until 10 a. m., Oct. 27, by M. Gray Zalinski, Q. M., U. S. A., for furnishing and delivering fire apparatus.

REVETMENT.—Zanesville, Ohio.—The Board of Public Service will probably award contract to O. W. HYSER for the construction of a revetment along the Licking River at $4,370.

LEVEE.—Shelbyville, Ind.—The contract for the construction of a large levee, 18,000 ft. long, along Flat Rock River in Washington Township, has been let to J. MONROE GOODRICH.

COMFORT STATION.—New York, N. Y.—All bids were rejected on Oct. 6 by the Park Board for the erection and completion of a comfort station at McKinley Park, Boro. Brooklyn.

TOP SOIL, ETC.—New York, N. Y.—Bids will be received by the Park Board until 3 p. m., Oct. 20, for furnishing and delivering top soil or garden mold at Prospect Park, Boro. Brooklyn.

CEMENT.—Chicago, Ill.—Bids will be received until Oct. 13 by B. J. Mullaney, Comr Pub. Wks., for furnishing and delivering 2,000 bbls. of natural cement and 100 bbls. of Portland cement.

WHARF.—Barrington, N. S.—Bids will be received until Oct. 17 by the Department of Public Works, Ottawa, Ont., R. C. Desrochers, Secy., for constructing a wharf at Barrington's Cove.

DITCH.—Marion, Ind.—Bids are asked by George Swisher, Drainage Comr., Grant County, Marion, until 2 p. m., Oct. 15, for the construction of the C. R. Kimes ditch in Fairmount Township.

STONE.—Boston, Mass.—Bids for rubble stone in the north jetty at Newburyport Harbor, Mass., will be received by Col. Frederick V. Abbot, Corps Engrs., U. S. A., until noon, Oct. 31.

*WOODEN PIER.—Annapolis, Md.—Bids are asked by the Navy Department, Washington, D. C., until 11 a. m., Nov. 12, for constructing a wooden pier at the U. S. Naval Academy, Annapolis.

WHARVES.—Savannah, Ga.—J. H. McKENZIE'S SONS, of Augusta, Ga., have been awarded contract for 21,000 ft. of wharves by the Central of Georgia Ry. Co. Approximate cost will be $200,000.

DAMS AND DITCHES.—Rapid City, S. DAK.—Bids will be received until Oct. 24 by A. K. Thomas, City Audr., for constructing dams and ditches to intercept surface water and prevent flooding.

R. R. SYSTEM EXTENSION.—Boston, Mass.—The contract for the construction of a railroad system extension at the Boston navy yard has been awarded to C. M. LEACH, Boston, Mass., at $9,875.

DIVERSION OF RIVER BED.—Blairmore, Alta.—Bids will be received until Oct. 25 by the Western Canada Collieries, Ltd., for the excavation and diversion of river bed for a distance of about one mile.

DAM.—Cincinnati, Ohio.—Bids will be received by Maj. John C. Oakes, Corps Engrs., U. S. A., Cincinnati, until noon, Nov. 5, for constructing a dam of concrete at the head of Buffington Island, Ohio River.

*RIPRAP STONE.—Boston, Mass.—Bids are asked until noon, Nov. 12, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, for riprap stone at Lovells Island and Long Island, Boston Harbor.

BRASS FITTINGS, ETC.—Bids will be received until 4 p. m., Oct. 24, by W. W. Northcott, Civic Purchasing Agent, for a quantity of brass fittings, lead and galvanized piping and galvanized fittings.

*BREAKWATER.—Detroit, Mich.—Bids will be received until 3 p. m., Nov. 10, by Col. C. McD. Townsend, Corps Engrs., U. S. A., for constructing a rubble mound breakwater at Mission Point, Mackinac Island, Mich.

RETAINING WALL.—St. Paul, Minn.—H. P. Keller, Mayor, has received the following bids for the construction of a retaining wall at the Mechanic Arts High School: G. G. Anderson, $8,467; C. P. Johnson, $8,743.

DREDGING.—Mobile, Ala.—The Louisville & Nashville R. R. Co. has awarded contract for dredging from their wharf frontage to a uniform depth of 23 ft. from the wharf to the channel to the HOME DREDGING CO.

DREDGING.—San Francisco, Cal.—Bids for dredging in Oakland Harbor, Cal., will be received by Brig.-Gen. Charles E. L. B. Davis, Corps Engrs., U. S. A., 726 Chronicle Bldg., San Francisco, until noon, Oct. 27.

PIER.—Bonaventure River, Que.—Bids will be received until Oct. 26 by the Public Works Department, Ottawa, Ont., R. C. Desrochers, Secy., for the construction of an extension to the training pier at Bonaventure River.

HOME DREDGING CO., of Mobile, Ala., secured the contract for filling the area within proposed sea wall and existing earthen embankment at 11.37 cts. per cu. yd.; total of $45,480. Bids were opened on Sept. 19.

WHARF.—Los Angeles, Cal.—Permission to replace the old pier of the California Fish Co. with a wharf 400 ft. long, to cost about $10,000 has been granted the Crescent Wharf & Warehouse Co. by the Board of Public Works.

LEVEE.—Vicksburg, Miss.—Bids will be received by Capt. S. Smith, Corps. Engrs, U. S. A., First National Bank Bldg., Vicksburg, Miss., until Oct. 26, for 183,000 cu. yds. of levee work in the Third District, Miss. River Commission.

STEEL SHED.—Charleston, S. C.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Nov. 5, for a steel storage shed at the U. S. navy yard, Charleston. R. C. Hollyday is Ch. of Bureau.

*DREDGING.—Norfolk, Va.—Contract has been awarded to the ATLANTIC GULF & PACIFIC CO. for dredging the south branch of the Elizabeth River, Va., at 11.47 cts. per cu. yd. Bids were opened on Sept. 22. List of bidders noted on Sept. 29.

RETAINING WALL.—Denver, Colo.—The Board of Public Works has awarded contract for the extension of the Cherry Creek retaining wall, from West Colfax to Blake Sts., to the GAFFEY & KEEFE CONSTRUCTION CO., of Detroit, at $79,311.

REBUILDING SEAWALL.—North Scituate, Mass.—Bids will be received by Frederic T. Bailey, Secy., until 2 p. m., Oct. 18, for rebuilding the seawall at North Scituate beach extending from the Osgood cottage on the north a distance of 1,050 ft.

*GUIDE WALLS, ETC.—Cincinnati, Ohio. —Bids will be received by Maj. John C. Oakes, Corps Engrs., U. S. A., Cincinnati, Ohio, until Nov. 8, for constructing guide walls and service bridge at Lock No. 1, Big Sandy River, at Catlettsburg, Ky.

WHARF.—Richmond, Va. — The James River Improvement Commission has authorized the City Engineer to prepare plans and specifications for the construction of a concrete wharf and bulkhead from the mouth of Gillies Creek to Nicholson St.

CONCRETE LOCK.—Sault Ste. Marie, Mich.—Bids for the concrete wall on the new Davis Lock will be asked shortly by the War Department. The work is under the direction of Col. C. McD. Townsend, Corps Engrs., U. S. A., U. S. Engineer Office, Detroit, Mich.

PROTECTION PIER.—Milwaukee, Wis.—Bids will be received by the Department of Public Works until 10.30 a. m., Oct. 14, for constructing a new protection pier in the Milwaukee River for the Chestnut St. bridge. Charles R. Poetsch is City Engr.

LOCKKEEPERS' HOUSES.—Wheeling, W. Va.—Contracts were let on Oct. 6, for the erection of lock houses at Dam No. 11, three miles below Wellsburg, to the GUY JOHNSON CONSTRUCTION CO., of Toronto, Ohio. List of bidders noted on Oct. 6.

DITCH.—Clinton, Ill.—The ditch to be constructed by the Commissioners of the DeWitt Special Drainage District, Clinton, will be 5½ miles long, and will require the excavation of 100,000 cu. yds. W. J. Day is Engr., Bement, Ill. Noted on Oct. 6.

ICE PIERS.—Wheeling, W. Va.—New bids will be asked soon for the construction of ice piers at the mouth of the Big Kanawha River, at Point Pleasant, W. Va., all the bids formerly received having been rejected as excessive. New plans are now being prepared.

*DREDGING. — Galveston, Tex. — The NORTH AMERICAN DREDGING CO., Galveston, it is reported, has been awarded the contract for dredging Port Bolivar channel, 777,000 cu. yds. at about $82,775. Bids were opened on Sept. 10. List of bidders noted on Sept. 22.

STEAMER.—Ottawa, Ont.—Bids will be received by Alexander Johnson, Deputy Minister of Marine and Fisheries, Ottawa, until noon, Oct. 31, for a twin screw steel lighthouse and buoy steamer for the Pacific coast. Plans and specifications may be seen at the Department.

CAPSTAN.—New York, N. Y.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Nov. 12, for furnishing and installing one electric motor-driven capstan at the U. S. navy yard, New York. R. C. Hollyday is Ch. of Bureau.

*DREDGING, ROCK REMOVAL.—New York, N. Y.—Bids are asked until noon, Nov. 7, by Col. W. M. Black, Corps Engrs., U. S. A, Army Bldg., 39 Whitehall St., New York, for dredging and rock removal in Port Chester Harbor, N. Y., and in harbor at Echo Bay, N. Y.

DREDGING.—Savannah, Ga.—P. SANFORD ROSS, INC., of Jersey City, N. J., has been awarded contract for dredging in Savannah Harbor at 10 1-3 cts. per cu. yd. Col. Dan C. Kingman, Corps Engrs., is in charge. The Atlantic Gulf & Pacific Co. bid 11.39 cts. and the Coastwise Dredging Co. 12.7 cts.

*LOCK, GUIDE WALLS, ETC.—Wheeling, W. Va.—Contract has been awarded to the PNEUMATIC CAISSON CO., 16 East 23d St., New York, for the construction of lock, guide walls and wiers for Dam No. 12, Ohio River. Bids were opened on Sept. 16. Itemized bids were noted on Oct. 6 under Contract Prices.

FIRE ENGINE.—Duluth, Minn.—Bids will be received by the Board of Fire Commissioners until 3 p. m., Oct. 28, for furnishing the city a gasoline fire engine, fully equipped for service, of not less than 500 gallons per min. capacity, weight about 4,500 lbs., and to cost about $3,000. J. H. McCaul is Secy.

LOCK AND DAM.—Pittsburg, Pa.—Bids were opened by Lieut.-Col. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, on Sept. 8 for constructing lock and dam No. 9 at New Cumberland. The contrast has been awarded to the NATIONAL CONTRACT CO., of Little Hocking, Ohio, at $912,456. Noted on Sept. 22.

*DREDGING.—Alexandria, Va.—SANFORD & BROOKS, Commerce and Water Sts., Baltimore, Md., have been awarded contract for dredging 300,000 cu. yds. in the Potomac River, opposite Alexandria, at 11.75 cts. per cu. yd. Bids were opened Sept. 22. List of bidders noted on Sept. 29.

RETAINING WALL.—Wheeling, W. Va.—The Board of Control has approved the plans of C. C. Cook, City Engr., for a reinforced concrete retaining wall on Lynd St., 33 ft. high from bedrock, on piers 4 × 15 ft. at the base, 120 ft. in length. Cost, $3,000. Bids are asked until Oct. 17.

*DREDGING.—Norfolk, Va.—The MARYLAND DREDGING & CONTRACTING CO., Fidelity Bldg., Baltimore, Md., has been awarded contract for dredging Thimble Shoals, about 1,053,921 cu. yds., at 13.3 cts. per cu. yd. Appropriation available, $215,000. Bids were opened on Sept. 19. List of bidders noted on Sept. 29.

DRAINAGE DITCH.—Fargo, N. Dak.—The contract for the construction of drainage ditch No. 30 was let, on Oct. 1, by Andrew Houglum, County Audr., to J. T. SMITH. The ditch will run from the northeast corner of section 22, just south of Moorhead, due west to the Red River, where it will empty.

CABLES.—New York, N. Y.—Bids were received by Patrick A. Whitney, Comr. of Correction, on Oct 4, for furnishing and delivering lead-covered feeder, sub-feeder and duplex-armored cables. Contract has been awarded to the NATIONAL INDIA RUBBER CO., 42 Broadway, New York, at $11,203.

QUAY WALL.—Oakland, Cal.—The Board of Public Works has ratified the assignment of the contract for the construction of 2,000 ft. of quay wall on the estuary waterfront extending from Myrtle to Clay Sts., at a cost to the city of $222,000, from the Carterra Construction Co., the lowest bidders, to the Hansbrough Bros. Co., San Francisco.

LEVEE WORK. — Shreveport, La. — The Caddo Levee Board has awarded contracts as follows for new levee work, amounting to $40,000: To W. R. CAVETT, for Kentucky levee; F. T. CONTANCE, for Missionary levee, Scott's Slough and Shrev's Island; HALL NATTIN, for Rush Point; J. H. STINSCN, for Sterling Bayou levee; and W. G. BURT, for Cash Point.

*DREDGING.—Washington, D. C.—The ATLANTIC, GULF & PACIFIC CO., 13 Park Row, New York, has been awarded contract for dredging Potomac River, 1,500,000 cu. yds., at 7.89 cts. per cu. yd., and for same amount from the channel of Anacostia River from its mouth to the Navy Yard bridge, at 6.89 cts. Bids were opened on Sept. 22. List of bidders noted on Sept. 29.

WIDENING PIER.—San Francisco, Cal.—The Board of Harbor Commissioners has adopted plans and specifications, submitted by Ralph Barker, Engr., for widening Pier 21 on the south side and connecting it with the Belt R. R. Estimated cost, $11,000. Bids for this work and for piling and repairing wharves, piers, bulkheads and ferry slips on the waterfront will be asked.

COAL DOCK.—Superior, Wis.—Plans have been made for the improvement of the Carnegie Fuel & Dock Co.'s coal dock on St. Louis Bay. Estimated cost, $125,000. Another coal-unloading bridge will be built at a cost of $100,000, and screening equipment will be added, which will cost $25,000. The new unloading rig will be electrically operated and will have a 5-ton unloading bucket.

SEA WALL.—New Orleans, La.—J. D. McGEE, of Greenville, S. C., has been awarded contract for the construction of a sea wall at West End Lake Shore Park, as follows: 1,300 piles, each $7.45; 495 M. ft. sheet piling and walling timbers, $21.60; 340 tie rods, each $1.40; 1,400 cu. yds excavation, 40 cts.; 142,750 cu. ft. concrete, $2.94; 18,400 lbs. reinforcing rods, 2¼ cts.; total, $63,795.

BUOYS, ETC.—Tompkinsville, N. Y.—Bids will be received by the Light-House Inspector, Tompkinsville, until 2 p. m., Oct 26, for furnishing and delivering buoys and appendages for the light-house establishment during the fiscal year ending June 30, 1911. The articles to be furnished embrace whistling, nun, can, bell, gas, wooden spar and tall-type buoys, ballast balls, iron sinkers, bells for buoys, buoy castings, etc.

DRAINAGE.—Clinton, Ill.—Bids will be received until 1 p. m., Oct. 22, by the Commissioners of Nixon Special Drainage District, Counties of DeWitt and Mason, at Clinton, for the construction of sub-districts Nos. 2, 3, 4, 5 and 6, requiring the furnishing and laying of 6,518 ft. 20-in. tile; 8,940 ft. of 16-in. tile, 1,500 ft. of 15-in. tile, 1,900 ft. of 14-in. tile, 900 ft. of 12-in. tile; also building about 46 cu. yds. of concrete head walls.

CULVERT.—Redwood City, Cal.—Bids will be received until 10 a. m., Oct. 17, by the Board of Supervisors for constructing a concrete culvert at San Gregorio at San Gregorio and La Honda Road, over a small creek, in Fifth Road District. J. H. Nash is Clk., Redwood City. Bids must specify the time required for completion of work, also cost of concrete in place, per cu. yd. to be used in estimating the value of extra work, if required.

*DREDGING.—Baltimore, Md.—Bids were received on Sept. 29 by Col. Thomas L. Casey, Corps Engrs., U. S. A., Custom House, Baltimore, for dredging in Rockhall, Queenstown, Claiborne, Cambridge and Crisfield Harbors, and Susquehanna, Elk, Chester, Warwick, Choptank and Manokin rivers, Lower Thoroughfare, at or near Wenona, Deal Island and Tyaskin Creek, Md., Nanticoke River, Del. and Md., and Broad Creek River, Del., as follows: John L. Green, Philadelphia, Pa., 20 cts. for all the work; River & Harbor Improvement Co., Philadelphia, Rockhall, 35 cts.; Claiborne, 18 cts.; Cambridge, 16 cts; Warwick, 18 cts.; Crisfield, 19 cts.; Susquehanna River, 15 cts.; Elk River, 20 cts. Maryland Dredging & Contracting Co., Fidelity Bldg., Baltimore, Md., 18.5 cts. for all the work (recommended for award); McLean Contracting Co., Baltimore, Elk River, 18 cts.

(Continued on page 177.)

CONTRACT PRICES.

(Denotes that this work is advertised in Engineering News.)*

PAVING.—Atlantic, Iowa.—Contracts have been awarded WM. HARRABIN and CAPITAL CITY CONCRETE CONSTRUCTION CO., of Iowa City, Ia., for p[illegible] bidders were: (A) Zitterell & Su[illegible] ster City, Ia.; (B) National Cons[illegible] Omaha, Neb.; (C) Capital City C[illegible] struction Co.; (D) William Har[illegible] City, Iowa.:

PAVING, ATLANTIC, IOWA.

	A.	B.	C.	D.
385 lin. ft. false curb	$0.59	$0.42	$0.30	[illegible]40
152,831 lbs. cast iron	0.035	0.04	0.04	[illegible]375
28,643 lin. ft. curb and gutter	0.69	0.53	0.60	[illegible]52
4,898 cu. yds. excess grading	0.445	0.43	0.50	[illegible]43
1,398 sq. yds. paving, brick	2.015	2.00	2.03	[illegible]97
41,166 sq. yds. paving, bituminous concrete, 2-in	2.15	2.09	1.93	[illegible]08
3,200 sq. yds. paving, bituminous concrete, 3-in	2.34	2.24	1.93	[illegible]23
Totals	$129,388	$119,563	$114,327	[illegible]401

WM. HARRABIN, curb and gutters, $14,894 (awarded contract).
CAPITOL CITY CONCRETE CONSTRUCTION CO., balance of work, $97,142 [illegible]ded contract).

DOCK IMPROVEMENTS.—Racine, Wis.—Bids were received Sept. 12 by Major Chas. S. Bromwell, U. S. A., for building reinforced-concrete caissons and pile pier, removing old pier and dredging in Racine Harbor. The bids were as follows, (A) Hugo & Tims Co., Duluth, Minn.; (B) [illegible]eiling Bros. Co., Green Bay, Wis.; (C) [illegible] Edward Gillen Dock, Dredge & Construction Co., Racine, Wis.; (D) William H. Gillen, Milwaukee, Wis. The itemized bids are as follows:

PIER IMPROVEMENTS, RACINE, WISCONSIN.

	A.	B.	C.	D.
3,448 cu. yds. concrete in caissons	$15.00	$14.00	$16.00	$16.00
45 cu. yds. concrete in pile pier	15.00	14.00	16.00	16.00
1,786 cu. yds. concrete in caissons	12.00	10.50	10.50	10.00
709 cu. yds. concrete in pile pier	12.00	11.50	15.00	15.00
2,038 cu. yds. concrete	8.00	6.50	8.00	8.00
734 foundation piles, each	17.00	14.25	17.50	17.50
8,000 lin. ft. round piles	50.00	35.00	37.00	37.00
211,600 ft. B. M	20.00	17.50	25.00	25.90
87,000 ft. B. M	20.00	20.00	30.00	26.90
12,700 lbs. bolts	5.00	5.00	6.00	6.00
28,400 screw bolts and tie rods	5.00	5.00	10.00	10.00
10,500 tons stone	1.65	1.55	1.95	2.00
930 lin. ft. old pier removing	18.00	16.00	22.37	22.00
50,000 cu. yds. dredging	.20	.17	.23	.23
Totals	$165,209	$149,468	$181,666	$180,875

GRADING.—Seattle, Wash.—Bids were received by the City Council for grading and improving Twelfth Ave. and Twelfth Ave. South from: (A) Grant, Smith & Co., (B) ERICKSON CONSTRUCTION CO. (awarded contract). Payment will be made in 10-year 6% bonds. The itemized bids were as follows:

GRADING, SEATTLE, WASH.

	A.	B.
Abstract of tile, fixed estimate	$6,000.00	$6,000.00
Clearing and grubbing, lump sum	7,000.00	10,000.00
330,000 cu. yds. earth work	.56	.45
238 M. ft. B. M. curbs and gutters	22.00	18.00
127 M. ft. B. B. curbs and gutters relaid	7.00	5.00
2,259 M. ft. B. M. wood walks	20.00	16.00
2,378 lin. ft. 10-in. pipe sewer	1.60	2.00
1,468 lin. ft. 12-in. pipe sewer	1.90	2.25
42 lin. ft. 15-in. pipe sewer	2.40	2.50
508 lin. ft. pipe sewer, new, relaid	3.60	4.00
	3.00	2.00
5 manholes, 3½-ft.	75.00	75.00
2 manholes, 3½-ft. special	90.00	80.00
7 manholes, 4½-ft.	85.00	90.00
1 manhole, 4½-ft. special	100.00	90.00
20 lin. ft. manholes, 3½-ft. extensions	2.00	3.00
90 lin. ft. manholes, 4½-ft. extensions	2.50	3.00
15 catch basins and manhole covers	5.00	10.00
14 catch basins, 1 inlet	65.00	75.00
6 catch basins, 2 inlets	75.00	85.00
12 catch basins, no inlets	60.00	60.00
35 catch basins rebuilt	55.00	35.00
5 single inlets, new	30.00	10.00
63 single inlets, moved	5.00	8.00
300 lin. ft. 6-in. side connections	1.00	1.00
500 lin. ft. 6-in. side connections, relaid	.80	.75
15 sand boxes	40.00	15.00
100 lin. ft. 3-in. sewer pipe	.25	.50
200 lin. ft. 3-in. tile drain	.15	.50
40 M. ft. B. M. temporary bridges	25.00	20.00
4,145 lin. ft. 42-in. riveted steel pipe, ¼-in. thick	11.25	12.00
4,145 lin. ft. lock bar steel pipe, ¼-in. thick	12.20	12.00
1,150 lin. ft. 36-in. riveted steel pipe, ¼-in. thick	19.00	11.00
1,150 lin. ft. lock bar steel pipe, ¼-in. thick	10.00	11.00
5,400 lin. ft. 20-in. c.-i. pipe	4.25	5.00
24 lin. ft. 16-in. c.-i. pipe	3.50	4.00
318 lin. ft. 12-in. c.-i. pipe	2.75	2.50
6 20-in. gate valves	210.00	175.00
1 16-in. gate valve	150.00	100.00
1 12-in. gate valve	60.00	55.00
12 hydrants, reset	20.00	10.00
2,000 lbs. special castings	.09	.06
Totals: 21-in. pipe sewer, new, 42-in. riveted pipe, 36-in. riv. pipe	$381,348.35	$336,690.50
Totals: 21-in. pipe sew., new, 42-in. lck bar pipe, 36-in. lck b pipe	$386,436.10	$336,690.50
Totals: 21-in. pipe sew., relaid, 42-in. lck b pipe, 36-in. lck b pipe	$386,131.50	$335,674.50
Totals: 21-in. pipe sew, relaid, 42-in. riv. pipe, 36-in. riv. pipe	$381,131.30	$335,674.50

FILTRATION PLANT.—Grand Rapids, Mich.—The following bids have been received for the construction of basins and substructures for a filtration plant, (A) Engineer's estimate; (B) J. P. Rouche; (C) Carpenter & Anderson; (D) A. H. Prange (awarded contract); (E) The Kaps Brehm Co.; (F) American Engineering & Construction Co.; (G) A Bently & Sons Co. The itemized bids are as follows:

FILTRATION PLANT, GRAND RAPIDS, MICH.

	A.	B.	C.	D.	E.	F.	G.
34,000 cu. yds. general earth excavation	$0.60	$0.45	$0.40	$0.58	$0.96	$0.46	$0.55
100 cu. yds. earth excavation from cylinders	2.00	6.00	1.47	2.00	2.50	5.00	2.00
1,200 cu. yds. earth excavation below grade	1.00	1.00	.53	1.00	2.00	1.12½	1.50
1,200 cu. yds. selected earth filling	.50	.50	.64	.40	.50	1.12½	.60
10,000 cu. yds. earth embankment	.30	.65	.25	.25	.30	.84	.40
500 cu. yds. rock excavation	2.50	2.00	3.00	2.50	2.50	2.80	3.50
2 acres seeding	75.00	25.00	60.00	12.00	5.00	100.00	40.00
100 sq. yds. sodding	.50	.15	.25	.40	.25	.20	.18
10 cu. yds. concrete masonry in piers of headhouse foundations	5.00	10.00	5.85	7.00	4.85	6.70	10.00
7,400 cu. yds. concrete masonry, general	10.00	11.25	14.20	9.00	10.35	11.25	9.85
800 sq. yds. surfacing of concrete floors	.25	.27	.26	.30	.35	.30	.60
275,000 lbs. steel reinforcing	.035	70.00	72.00	50.00	58.00	60.00	58.00
86 tons, straight c.-i. pipe, bell and spigot	40.00	45.00	41.00	35.00	46.57	35.00	40.00
25 tons c.-i. pipe specials, bell and spigot	70.00	100.00	96.00	75.00	98.40	80.00	75.00
23 tons c.-i. pipe specials, flanged	90.00	100.00	96.00	80.00	139.63	90.00	90.00
13 42-in. square sluice gates	450.00	595.00	412.00	530.00	423.97	550.00	525.00
4 36-in. sluice gates	300.00	441.00	285.00	400.00	353.40	380.00	365.00
1 16-in. circular sluice gate	75.00	135.00	100.00	100.00	110.16	125.00	102.00
9 12-in. circular sluice gates	60.00	88.00	75.00	75.00	75.19	65.00	62.00
17 12-in. gate valves	50.00	56.50	50.00	60.00	40.00	50.00	60.00
2 6-in. gate valves	20.00	20.00	18.00	30.00	17.83	20.00	30.50
16,00 lbs. miscellaneous c.-i. work	.04	90.00	40.00	60.00	90.00	80.00	75.00
40,000 lbs. miscellaneous wrought iron and steel work	.05	.05	.043	.03	.039	[illegible]	.04
300 lin. ft. 8-in. vitrified pipe	.20	.25	.42	.35	.40	[illegible]	.24
80 lin. ft. 6-in. vitrified pipe	.15	.20	.37	.25	.30	[illegible]	.19
40 lin. ft. 4-in. vitrified pipe	.10	.15	.40	.20	.20	[illegible]	.11
2,400 sq. yds. vitrified brick pavement	1.75	1.75	1.90	1.80	1.90	[illegible]	2.25
1,400 lin. ft. concrete curbing, straight	.60	.35	.38	.40	.35	[illegible]	.22
300 lin. ft. concrete curbing, curved	.75	.50	.50	.50	.80	[illegible]	.30
Totals	$135,221	$147,227	$159,125	$123,842	$151,347	$149,0[illegible]0	$135,238

MISCELLANEOUS CONTRACTS.

(Contnued from page 176.)

PROJECTILES.—Washington, D. C.—The following bids were received by the Chief of the Bureau of Ordnance, U. S. Navy, on Oct. 5, for furnishing 2,400 14-in. armor-piercing projectiles: Crucible Steel Co. of America, Frick B[illegible], Pittsburg, Pa., 1,000 14-in. projectiles, [illegible] each; Bethlehem Steel Co., South Bethlehem, Pa., 15,000 14-in. projectiles, $5[illegible] each; Midvale Steel Co., Philadelphia, Pa., 2,400 14-in. projectiles, $518 each; Firth Sterling Steel Co., Washington, 2,400 14-in. projectiles, $410 each.

ELEVATOR PLANT.—St. Louis, Mo.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for installing a hydraulic elevator plant in the U. S. public building here to the LLEWELLYN IRON WORKS, Los Angeles, Cal., at $32,928; to be added, pumps and air compressors, $3,156; to be deducted for omitting lifts 1, 2, 3, 4, 5, 6 and 7, one triplex pump and motor and one air compressor $22,232. Net amount, $13,852.

STORAGE TANKS.—Washington, D. C.—Bids were received as follows on Oct. 8 by the Bureau of Yards and Docks, Navy Dept., Washington, for pumps, piping and appurtenances for fuel oil and gasoline storage tanks at Bradford, R. I.; Norfolk, Va.; Charlestown, S. C.; and Key West, Fla.: McCay Engineering Co., 9 East Lexington St., Baltimore, Md., $97,700; John W. Danforth Co., 70 Ellicott St., Buffalo, N. Y., $85,790; D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, $86,330.

LEVEE CONSTRUCTION.—Allenfarm, Tex.—Bids are asked by the Commissioners of Brazos County Improvement District No. 1 until 1 p. m., Nov. 5, at Terrell's store, Allenfarm, for the construction of about four miles of levee and the completion of eight miles of levee partially constructed. The levee is located in the Brazos bottom, in southern portion of Brazos County. The work will consist of about 200,000 cu. yds. of earth embankment, eight acres of clearing and grubbing and 75 acres of sodding. Bonds for $49,000 have been issued.

AUTOMATIC SPRINKLERS.—Washington, D. C.—Bids for automatic sprinklers for buildings 58, 60 and 62 were received on Oct. 8 as follows by the Bureau of Yards and Docks, Navy Dept., Washington: Rockwood Sprinkler Co., 141 Milk St., Boston, Mass., (1), $5,155; (2) $4,500; (3) $4,273; (4) $3,590; (5) $1,278. Automatic Sprinkler Co. of America, 123 William St., New York, (1) $5,127; (2) $4,595; (3) $4,263; (4) $3,616; (5) $1,292. General Fire Extinguisher Co. of Massachusetts, 79 Milk St., Boston, (1) $4,900; (2) $4,485; (3) $4,150; (4) $3,462; (5) $1,420.

*DIPPER DREDGES.—Nashville, Tenn.—Bids were received as follows on Sept. 27, by Maj. A. F. Flagler, Corps Engrs, U. S. A., for furnishing machinery, fittings, etc., for two dipper dredges: Marion Steam Shovel Co., Marion, Ohio, $15,830, $16,800, $22,175 and $23,225; Browning Mfg. Co., Cleveland, Ohio, $28,300 and $33,900; the Bucyrus Co., South Milwaukee, Wis., $22,300 and $25,500; Osgood Dredge Co., Albany, N. Y., $20,380 and $25,180; American Locomotive Co., 30 Church St., New York $23,500 and $26,500; American Steel Dredge Co., Fort Wayne, Ind., $20,960.

BOARDWALK, REPAIRS, ETC.—Asbury Park, N. J.—The city is considering the following improvements on the beach: Boardwalk repairs and improvements, $30,000; restoration of Casino, $10,000; building hot and cold salt water bathing establishments, $75,000; construction of one or more swimming pools, $10,000; improving conditions for musical feature, $5,000; remodeling fishing pier so that it may be used for recreation and pleasure, $10,000; increasing number of surf bath houses, $10,000; construction of additional buildings, such as the Esplanade Review, at such points as may seem advisable and finances will permit, and seats along the east side of the boardwalk. W. C. Burroughs is City Clk.

PIER.—Boston, Mass.—The Board of Harbor and Land Commissioners on Oct. 3 awarded the contract for the reconstruction of Pier 6 at South Boston to HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., Dorchester, at $760,000. Other bidders were: William L. Miller, Boston, $780,900; Roy H. Beattie, Inc., and John Cashman & Sons Co., Boston, $797,000; Patrick McGovern, Boston, $835,000; Metropolitan Contracting Co., Boston $855,000; Ryan-Parker Construction Co., New York, $941,000; Thomas Fitzgibbons & Co., Beverly, $960,000; Luke D. Mullen, Boston, $1,190,000; Hugh Nawn Contracting Co., Boston, $1,300,000; P. J. Carlin Construction Co., New York, $1,395,000; S. Pearson & Sons, Inc., New York, $1,445,200.

DREDGING, RETAINING WALLS, ETC.—Jacksonville, Fla.—Contracts for dredging, etc., have been awarded as follows: For dredging in Biscayne Bay, Fla., to the SOUTHERN DREDGING CO., of Mobile, Ala., at the following prices: For sand dredging, 25 cts. per cu. yd.; for rock excavation, $2.44 per cu. yd., place measure. For building and raising training walls, dams and shore protection in St. Johns River, to RODERICK G. ROSS, of Jacksonville, Fla., at the following prices: Mattress, 65 cts. per sq. yd.; oyster shell, 75 cts. per cu. yd.; first-class stone, $2.50 per ton; second-class stone, $2.65 per cu. yd. For rock excavation in front of the city of Jacksonville, to P. SANFORD ROSS, INC., of Jersey City, N. J., at $2.64 per cu. yd. For work in Hillsboro Bay, Fla., to the NORTH AMERICAN DREDGING CO., Galveston, at 7.9 cts. per cu. yd., and RITTENHOUSE MOORE, of Mobile, Ala., at 8½ cts. per cu. yd.

IMPROVEMENT OF TIDE LANDS.—Aberdeen, Wash.—Contracts were let for the improvement of the tide lands in Aberdeen by clearing, filling and draining, on Sept. 28, to the TACOMA DREDGING CO., California Bldg., Tacoma, for clearing and filling, and to HAUKELI & HEGDALE, Aberdeen, for drainage. Total, $195,790. The bids were as follows: Fill: Puget Sound Bridge & Dredging Co. (bonds), at .1685 cts. per cu. yd., or $252,750; same (cash), at .1485 cts. per cu. yd., or $222,750; Standard American Dredging Co., .139 cts. per cu. yd, or $208,500; North American Dredging Co., .164 cts. per cu. yd., or $246,000; Tacoma Dredging Co., .11 cts. per cu. yd., or $165,000. Clearing: Puget Sound Bridge & Dredging Co. (bonds), $36,125; same (cash), $32,750; Tacoma Dredging Co., $21,250; Haukeli & Hegdale, $25,905. Drainage: Puget Sound Bridge & Dredging Co. (bonds), $16,630; same (cash), $14,225; Tacoma Dredging Co., $10,280; Haukeli & Hegdale, $9,540.

U. S. POSSESSIONS.

(* *Denotes that this work is advertised in Engineering News.*)

LIGHT PLANT.—Wailuku, H. T.—The Wailuku Electric Co. will install a lighting plant here.

ENGINE.—Honolulu, H. T.—Contracts have been placed by the Honolulu Rapid Transit & Land Co. for one 1,500-HP. Hamilton-Corliss, cross-compound engine to be direct connected to a 1,000-KW., direct current, General Electric generator, Stratton steam separator, Cochrane oil separator and Wheeler & Edwards condenser and air pump. The company is installing two 420-HP. Stirling boilers with superheaters. C. H. Ballentyre is Mgr.

STERN SLEEVES.—Bids were opened on Sept. 30 by the Purchasing Officer, Isthmian Canal Commission Washington, D. C., for furnishing the following cast-steel sleeves: Item (1) stern; Item (2) strut: Baldt Steel Co., New Castle, Del., Item (1) 17.5 cts., (2) 22 cts., or rough, Item (1) 5 cts., (2) 16.25 cts.; delivery finished, 85 days; rough, 60 days. Detroit Steel Casting Co., New York, Item (1) 17 cts., (2) 17 cts.; time, 50 days. Keystone Steel Foundry, Washington,

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
10-15	Dredging, New York........(S.)	9-22
10-15	Dredging, Boston, Mass.....(S.)	9-22
10-15	Officers' quarters, Puget Sound, Wash. ....(S.)	9-15
10-17	Dredging, Boston, Mass......(S.)	9-22
10-18*	Dredging, Baltimore, Md....(S.)	9-22
10-18*	Dredging, Portland, Me......(S.)	9-22
10-19	Lockers, Chicago, Ill.........(S.)	9-29
10-19*	Dredging, Boston, Mass......(S.)	9-22
10-19*	Embankment, Duluth, Minn..(S.)	9-22
10-21*	Sewers, Louisville, Ky.....(P.)	10-13
10-22	Pier, Boston, Mass..........(S.)	9-29
10-22	Drydock pumping equip, Wash., D. C. .... (S)	9-22
10-22	Pier, Boston, Mass............(S.)	9-29
10-27*	Tug, New York ....(S.)	9-29
10-29*	Stone dam, Cincinnati, Ohio..(S.)	9-29
10-31	Embankment, Duluth, Minn..(S.)	10- 6
11- 1*	Canals, etc., North Yakima, Wash.......................(P. & S.)..	9-29
11- 1*	Reservoir, Binghamton, N. Y. ....(P. & S.)	9-22
11- 5	Extension to dike, Villejo, Cal. ....(S.)	9-29
11- 5	Gas house remodeling, Mare Island, Cal. ....(S.)	9-15
11- 5	Steel shed, Charleston, S. C..(S.)	10-13
11-12	Capstan, New York..........(S.)	10-13
11-19	Quarters, Mare Island, Cal...(S.)	10-13

Light, Heat and Power Plants.

Bids open.		Noted in issue of
10-15	Lighting, Walla Walla, Wash..	10- 6
10-15	Gas works, Jasper, Minn........	10-13
10-15	Transmission line, Salt Lake City, Utah	10-13
10-17	Gas and oil, etc., Jersey City, N. J.	10-13
10-17	Heating and vent., New York....	10- 6
10-19*	Light plant, Allentown, N. J....	9-29
10-19	Heating systems, New York.....	10-13
10-20	Electric switches, New York.....	10-13
10-20	Motor, Rock Island, Ill..........	10-13
10-20	Electric cables, New York......	10-13
10-20	Wiring, Los Angeles, Cal.. ...	10-13
10-20	Elec. light plant, Jackson, Ohio..	10- 6
10-25	Light fixtures, Cincinnati, Ohio..	10-13
10-25	Street lighting, Addyston, Ohio..	10-13
10-27	Boilers, Lancaster, Ohio.......	10- 6
10-31	Elec. light system, Egypt (Foreign)	10- 6
11- 3*	Heating and vent. system, etc., New York	10- 6
11- 3	Light fixtures, New York.......	10-13
11- 3	Elec. equipment, Canby, Minn..	9-29
11- 5	Gas house remodeling, Vallejo, Cal.	9-15
11-14	Franchise, Bodie, Cal............	10-13

Bridges.

Bids close.		Noted in issue of
10-13	Bridges, Evansville, Ind.........	10-13
10-13	Repairing fender, New York.....	10-13
10-14	Bridges, Horseshoe Bend, Idaho.	10-13
10-14	Bridges, New Hartford, Conn...	10-13
10-14	Bridges, Cincinnati, Ohio.........	9-29
10-14	Bridges, Noblesville, Ind........	10- 6
10-15*	Viaduct plans, St. Joseph, Mo..	9-22
10-15	Richmond, Mo.	10-13
10-17	Bridge, Redwood City, Cal......	10-13
10-17	Bridges, Putnam, Conn...........	10-13
10-17	Bridge, Oakland Cal.............	10-13
10-18	Bridges, Buckland, Ohio..	10-13
10-18	Bridges, Wapakoneta, Ohio......	10-13
10-19	Bridges, Wilkesbarre...........	10- 6
10-20	Bridges, York, Pa..............	10- 6
10-20	Gates, etc., New York..........	10-13
10-21	Bridges, Upper Sandusky, Ohio..	10- 6
10-22	Bridges, Shelbyville, Ind......	10- 6
10-26	Bridges, Cleveland, Ohio.........	10- 6
10-26	Bridges, Cleveland, Ohio	10-13
10-31	Bridge, Zanesville, Ohio.........	10-13
10-31	Bridge, Ukiah, Cal.............	9-29
11- 2	Bridges, Tallulah, La..	10-13

Buildings.

Bids close.		Noted in issue of
10-14	Hospital bldgs., New York......	9-15
10-15	Quarters, Puget Sound, Wash..	9-15
10-15	Post-office, Fairbury, Neb......	9-22
10-15	Fraternity hall, Mt. Carmel, Ill..	10- 6
11-16*	Post-office, Chambersburg, Pa..	10- 6
10-17	Police station, Memphis, Tenn....	9-22
10-17*	Post-office, Canandaigua, N. Y..	9-15
10-17*	Storehouse, Rock Island, Ill.....	9-29
10-17	Hospital, Rochester, Minn......	10- 6
10-17*	School, Chisholm, Minn.........	10- 6
10-17	School, Atlanta, Ga............	10-13
10-18	School, Long Beach, Cal........	10-13
10-18	High school, Tampa, Fla........	10-13
10-19	Hospital, Boston, Mass..........	10-19
10-20	Factory, Newmarket, Ont (Mfg. Pl.)	10- 6
10-24*	Post-office, Willmar, Minn......	9-22
10-24	Post-office, Troy, Ala...........	9-22
10-24	Public bldg., Strathcona, Alta..	10- 6
10-24	High school, Portsmouth, Ohio...	10-13
10-24	Public building, Goderich, Ont..	10- 6
10-25	Building, etc., National Soldiers' Home, Va.	10- 6
10-25	Building, New York, N. Y......	10-13
10-26*	Quarters, Fort Hancock, N. J..	9-29
10-26	Warehouse, Vancouver, B. C....	10- 6
10-27	Boilers, Lancaster, Ohio........	10- 6
10-29	Building, Raybrook, N. Y.......	10-13
10-31	Hospital, Boston, Mass.........	10-13
11- 1	High school, Bloomfield, N. J...	10-13
11- 1	Plans, Toronto, Ont.............	6- 9
11- 3	Laundry bldg., Cleveland, Ohio. ....(Mfg. Pl.)	10-13
11- 5	Remodeling gas house, Mare Island, Cal.	9-15
11- 7	Post-office, Demopolis, Ala......	10- 6
11-14	Post-office, Pontiac, Mich........	9-22
11-19	Quarters, Mare Island, Cal......	10-13
11-19	Post-office, Eagle Pass, Tex.....	10-13
11-22*	Post-office, Lewiston, Idaho.....	10- 6
11-22	Post-office, Porto Rico..........	10- 6
11-30	Building, Phila., Pa............	9-29

Water-Works.

Bids close.		Noted in issue of
10-15	Water-works, Blytheville, Ark..	10- 6
10-17*	Water-works, Oroville, Wash. ..	9-22
10-17	Water-works, Mulvane, Kan.....	10-13
10-18	Well, Monongahela, Pa..........	10-13
10-18	I-beams, Belle Fourche, S. Dak.	9-29
10-19*	Water pipes, Chambersburg, Pa..	10- 6
10-20	Tank and trestle, etc., Fort Sam Houston, Tex......	10- 6
10-21	Cleaning water mains, New York.	10-13
10-22	Standpipe, etc., Athens, Ohio....	10- 6
10-24	Water main, Euclid, Ohio.......	9-29
10-24	Diverting gate, Turlock, Cal.....	10-13
10-24	Water-works Highland Park, Va,	10-13
10-25*	Pumping station work, Parkersburg, W. Va...................	10-13
10-25*	Pumping station, Fort Terry, N. Y.	10-13
10-27	Water-works, Walworth, Wis....	10-13
10-29	Sub laterals, No. Yakima, Wash.	9-29
10-31	Water system, Egypt (Foreign)	10- 6
11- 1*	Reservoir, Bingham, N. Y.	9-22
11- 1*	Canals, etc., North Yakima Wash	9-29
11- 1	Water plant, Owensboro, Ky....	10- 6
11- 3*	Pumping engine, Brookline, Mass.	10-13
11-30*	Diversion channel, Portland, Ore.	9-29

Sewers.

Bids close.		Noted in issue of
10-13	Sewers, Parkersburg, W. Va....	10-13
10-14	Sewers, Columbus, Ohio........	10- 6
10-14	Sewers, Paxton, Ill............	10- 6
10-15	Sewers, Cleveland, Ohio........	10- 6
10-15	Sewers, Dundee, Ill............	10-13
10-17	Sewers, Perth Amboy, N. J......	10-13
10-17*	Storm sewer, Muskogee, Okla...	9-22
10-17	Sewers, Toledo, Ohio...........	10- 6
10-17*	Sewers, Laurence, Kan.........	10- 6
10-18	Sewers, Bronxville, N. Y.......	10-13
10-19	Sewers, New York, N. Y.........	10- 6
10-19	Sewers, East St. Louis, Ill......	10-13
10-20*	Sewers, Lewistown, Ill..........	9-29
10-20	Sewers, Lewiston, Ill............	10-13
10-21*	Sewers, Louisville, Ky..........	10- 6
10-25	Sewerage plans, Beaver Falls, Pa.	10- 6
10-25	Sewers, West Liberty, Iowa.....	10-13
10-25	Sewers, Emmetsburg, Iowa......	10-13
10-26	Sewers, Brooklyn, N. Y.........	10-13
10-25*	Sewers, Bellefontaine, Ohio.....	10-13
10-28*	Sewers, Westfield, N. Y.........	10- 6
11- 1	Sewers, Shelbyville, Ind........	9-29
11- 1*	Sewers, Atlanta, Ga............	10- 6
11- 1*	Sewers, Eastman, Ga...........	10-13

Streets and Roads.

Bids close.		Noted in issue of
10-13	Paving, Harrisburg, Pa.........	10-13
10-14	Paving, Lincoln, Neb...........	10-13
10-14	Street impvt., Seattle, Wash.....	10-13
10-14	Road bonds, Saratoga Sprgs., N. Y.	9-29
10-14	Road repair, Toledo, Ohio......	10- 6
10-15*	Highways, No. Tarrytown, N. Y.	9-29
10-15	Gravel road, Indiana...........	9-22
10-15*	Roads, etc., Fort Sill, Okla......	9-22
10-15	Road, Lafayette, Ind......	10- 6
10-15	Paving, etc., New York, N. Y...	10- 6
10-15	Roads, Princeton, Ind..........	10- 6
10-17	Roads, Pittsburg, Pa...........	10-13
10-17*	Paving, Chester, Pa............	10-13
10-17	Street impvts., Albany, N. Y....	10-13
10-17	Grading, etc., Ocean Park, Cal..	10-13
10-18	Highway, Douglas, Ariz........	10- 6
10-19	Road impvt, Toledo, Ohio.......	10- 6
10-19	Paving, New York, N. Y......	10- 6
10-19	Street impvt., East St. Louis, Ill.	10-13
10-19	Street impvt., Oakland, Cal.....	10-13
10-20	Repaving, etc., New York........	10-13
10-21	Sidewalks, Columbus, Ohio......	10-13
10-21	Grading, etc., Seattle, Wash.....	10-13
10-21	Road repair, Cincinnati, Ohio..	10- 6
10-29	Paving, Racine, Wis............	10-13
10-31	Paving, Spokane, Wash..........	10-13
11- 1*	Roads, Jacksonville, Fla.......	10- 6
11- 7	Road, Vernon, Ind..............	10-13
11- 7*	Streets, Westfield, N. J........	10-13
11-10	Roads, Rushville, Ind...........	10-13
11-12	Road, Fort Wayne, Ind.........	10- 6

Miscellaneous.

Bids close.		Noted in issue of
10-13	Cement, Chicago, Ill............	10-13
10-14	Dredging, Seattle, Wash.........	10-13
10-14	Protection pier, Milwaukee, Wis.	10-13
10-14	Flushing machines, Seattle, Wash.	10-13
10-14	Wharf, Los Angeles, Cal........	9-29
10-14	Dredging, Wilmington, N. C....	9-22
10-14*	Dredging, Wilmington, N. C....	9-15
10-14	Submarine cable, French Congo (Foreign)......	10- 6
10-14	Breakwaters, Hawaii (U. S. Poss)	10- 6
10-14	Supplies, Panama (U. S. Poss)	10- 6
10-14	Dumping board (Garbage), New York	10- 6
10-15*	Subway plans, St. Joseph, Mo...	9-22
10-15	Breakwater, Cleveland, O........	9-22
10-15	Drainage ditch, levee, Pekin, Ill..	9- 8
10-15	Dredging, New York............	9-29
10-15	Dredging, Boston, Mass.........	9-29
10-15	Ditch, Marion, Ind.............	10-13
10-17	Culvert, Redwood City, Cal.....	10-13
10-17	Retaining wall, Wheeling, W. Va.	10-13
10-17	Wharf, Barrington, N. S........	10-13
10-17	Pier, St. Joseph de Sorel, Que..	9-29
10-17	Supplies, Panama (U. S. Poss.)...	9-29
10-17	Dredging, Boston, Mass.........	9-22
10-17	Passageway, New York.......	10- 6
10-18*	Dredging, Portland, Me.........	9-22
10-18*	Dredging, Baltimore, Md........	9-22
10-18*	Towboat, Wheeling, W. Va.....	9-22
10-18	Tile blocks, New York........	10- 6
10-18	Roundhouse equip., Ottawa, Ont.	10- 6
10-18	Rebuilding seawall, North Scituate, Mass.	10-13
10-19	Filling, Boston, Mass...........	10-13
10-19*	Embankment, Duluth, Minn......	9-22
10-19*	Dredging, Boston, Mass.........	9-22
10-19	Lockers, Chicago, Ill...........	9-29
10-20*	Dredging, Norfolk, Va..........	9-29
10-20*	Dredging, Jacksonville, Fla......	9-22
10-20*	Dredging, Wilmington, N. C.....	9-22
10-20*	Subway system, etc., New York..	9-15
10-20*	Dredge, etc., Vicksburg, Miss....	8-25
10-20*	Dredging, Wash., D. C..........	9-22
10-20*	Dredging, Norfolk, Va..........	9-29
10-20	Motor, etc., Winnipeg, Man.....	10- 6
10-20	Top soil, etc., New York........	10-13
10-20	Automobile, New York..........	10-13
10-21	Dredging, San Francisco, Cal...	10-13
10-21*	Dredging, New York	9-22
10-22	Dry dock pumping equip, Washington, D. C.	9-22
10-22	Pier, Boston, Mass.............	9-29
10-22	Drainage, Clinton, Ill..........	10-13
10-24	Dams and ditches, Rapid City, S. Dak.	10-13
10-24*	Steel for gates, Detroit, Mich...	9-29
10-24*	Steel for gates, Detroit, Mich.(S.)	9-29
10-24	Alterations, etc., Goderich, Ont..	10- 6
10-24	Brass fittings, Victoria, B. C.....	10-13
10-25	Ditch, Clinton, Ill............	10- 6
10-25	Diversion of river bed, Blairmore, Alta.	10-13
10-26	Levee work, Vicksburg, Miss....	10-13
10-26	Buoys, etc., Tompkinsville, N.Y.	10-13
10-26	Wharf, St. Andrews, Que........	10-13
10-26	Pier, Bonaventure River, Que..	10-13
10-26*	Steel pipe, Washington, D. C....	10-13
10-27	Fire apparatus, New York......	10-13
10-27	Dredging, San Francisco, Cal....	10-13
10-27*	Dredging, Savannah, Ga.........	9-29
10-27*	Tug, New York..................	9-29
10-27	Collecting wks, Russia (Foreign)	9- 1
10-27*	Subway system, etc., New York...	9- 8
10-27*	Stone dam, Cincinnati, Ohio....	9-29
10-27	Supplies, Panama, (U. S. Poss)	10- 6
10-28	Garbage, (Garbage), New Albany, Ind.	10- 6
10-28	Fire engine, Duluth, Minn......	10-13
10-31	Stone, Boston, Mass............	10-13
10-31	Lighthouse, buoy steamer, Victoria, B. C...	9- 8
10-31	Steamer, Victoria, B. C.........	9-15
10-31	Railway supplies, New Zealand (Foreign)......	10- 6
10-31*	Crib and embankment, Duluth, Minn......	10- 6
10-31	Steamer, Ottawa, Ont...........	10-13
11- 1*	Brackets, etc., Norfolk, Va......	10- 6
11- 1	Dredging, Cleveland, Ohio......	10- 6
11- 1	Jetty extension, Cleveland, O..	10- 6
11- 2	Automobile, London, Ont.........	10- 6
11- 3*	Door operating system, New York.	10- 6
11- 5	Extension to dike, Vallejo, Cal..	9-29
11- 5	Dam, Cincinnati, Ohio..........	10-13
11- 7*	Dredging, rock removal, New York	10-13
11- 8*	Guide walls, etc., Cincinnati, O.	10-13
11- 8*	Dredging, Wilmington, Del......	10-13
11- 8	Torpedo boat destroyer, Washington, D. C...	9- 8
11-10*	Breakwater, Detroit, Mich.......	10-13
11-12	Capstan, New York.............	10-13
11-12*	Wooden pier, Annapolis, Md.....	10-13
11-12*	Riprap stone, Boston, Mass.....	10-13
11-16	Incinerating plants (Garbage) San Francisco, Cal.............	8-25
11-16*	Steamboat, St. Louis, Mo......	10- 6
12- 1	Port works, Turkey (Foreign).	10- 6
12- 1	Battleship, Colliers, Washington, D. C.........	10- 6
12-13	(1911) Copper mine, Turkey (Foreign)......	10- 6

Examinations.

Applications filed.		Noted in issue of
10-12	Draftsmen, Panama	9-22
10-13*	Naval Arch., Portland, Ore.....	9-29
10-15	Foreman, Washington, D. C.....	9-15
10-15	Supt. of construction, Albany, N. Y........	9-22
10-15	Inspector of Masonry, Albany, N. Y........	9-22
10-15	Highway inspector, Albany, N. Y.	9-22
10-15	Asst. Steam Engr., Albany, N. Y.	9-22
10-15	Forester, Albany, N. Y..........	9-22
10-19	Clerk-dftsman, Wash., D. C.....	9-15
10-19	Chemist, Madison, Wis..........	9-15
10-19	Engineer, Madison, Wis..........	9-15
10-10	Chem. Engr., Madison, Wis......	9-15
10-19	Teacher, Haskell, Kan..........	9-22
10-19	Laboratory helper, Wash, D. C..	9-22
10-19	Draftsman, Washington, D. C....	9-22
11- 2	Junior Chemist, Pittsburg, Pa...	9-29
11- 9	Mining Engr., Pittsburg, Pa....	9-29
11- 9	Testing Engr., Washington, D. C.	9-29
11- 9	Testing Engr., Seattle, Wash....	10- 6
11- 9	Electrical Asst., Wash., D. C....	10- 6
11- 9	Supt. of Construction, McNeil Island, Wash.	10- 6
11- 9	Laboratory Aid, Pittsburg, Pa....	10- 6

Item (1) 21.5 cts., (2) 21.5 cts.; time, 45 days. Penn Steel Casting & Machine Co., Chester, Pa., total price, $1,006; shipment, 110 days. UNION FOUNDRY & MACHINE CO., Pittsburg, Pa., Item (1) 15.88 cts., (2) 15.8[illegible] cts.; time, 45 to 60 days (awarded contracts). Wheeling Mould & Foundry Co., Wheeling, W. Va., Item (1) 30.5 cts.; (2) 30.5 cts.; shipment, 40 days.

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ———, ———. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

SHIP CANAL.—Japan.—It is reported that a company has been formed with a capital of $7,500,000, to construct a ship canal, 1,200 ft. wide and 30 ft. deep, between Yokohama and Tokio, to accommodate vessels of 10,000 tons.

GRAIN HARBOR.—Russia.—The Russian Government is planning to spend about $8,000,000 for a new grain harbor at Odessa.

INLAND WATERWAY.—Russia.—According to the New York "World," "the Russian Government is preparing to spend more than $67,000,000 in building an inland waterway to connect the Baltic Sea with the Caspian and Black Seas."

INDUSTRIAL NOTES.

THE LAUSON-LAWTON CO., of De Pere, Wis., is in receipt of an order for a carload of engines which will be shipped to Copenhagen, Denmark. This is the second order of the kind that has been received by this company during the last summer.

W. B. LOUER, 1156 Monadnock Block, Chicago, and formerly connected with the Interstate Equipment & Engineering Co., announces that he has been appointed district manager of the Lambert Hoisting Engine Co. and the Chain Belt Co. (concrete mixers). He will carry on also a general business in contractors' machinery.

MR. ELI T. CONNER, mining engineer, has opened a temporary office at Room 516 Traders' National Bank Bldg., Scranton, Pa., in order to properly care for important professional engagements in the Lackawanna and Wyoming districts of Pennsylvania. His Philadelphia office, in the Real Estate Trust Bldg., will, however, remain open as usual.

AN ADDITION TO THE PUMPING STATION and additional pumping facilities, both high and low pressure service, as well as a filtration plant and sedimentation basin, has been installed for the Charleroi Water Co., Charleroi, Pa. The engineers for the work were Chester & Fleming, Union Bank Bldg., Pittsburg. The daily capacity of the plant is 3,000,000 gallons.

THE RIGHTS FOR FRANCE and Belgium of the Moore vacuum-tube lighting have just been acquired by a group of capitalists headed by Otto Markiewicz. The new company bears the title "La Lumiere Moore" and will have its headquarters in Paris, temporarily at Hotel Regina. In connection with these transactions a series of experiments and tests of all the colors on both the tube and window forms of the light was conducted for the foreign capitalists by Prof. Wedding of the University of Charlottenburg. A year ago the "Allgemeine Moore Licht Gesselischaft" was established in Berlin and a little later an auxiliary operating company, the Moore Licht Aktiengesellschaft. Russian, Norwegian and Swedish companies have been organized within the last year and Moore tubes are now in use in more than 30 European cities.

TRADE PUBLICATIONS.

ORGAN BLOWERS.—Kinetic Engineering Co., Philadelphia, Pa. Paper; 7 × 9 ins.; pp. 16; illustrated.

What is known as the "kinetic" blower is here described. It consists of several fans mounted on one shaft, each fan being designed to add to the pressure of the air passing through it. The blower runs at constant speed whether full organ or softest stop is used. These fans are run at such low speed that the blower is claimed to be entirely quiet. It can be operated by any motive power. Details of the design are not disclosed.

PUMPING ENGINES.—Luitwieler Pumping Engine Co., Rochester, N. Y. Paper; 6½ × 9 ins.; pp. 48; illustrated.

A design of pumping engine in which pulsations of water pressure have been suppressed is described in this bulletin. This is claimed to be accomplished by the use of cams driving rollers connected to the piston rods. The different types of pumps built are all described and all the principal data is tabulated. There is, however, no very extended demonstration of the theory of the action of the cam-driven pistons in suppressing shock in any one water cylinder.

ORE AND COAL HANDLING MACHINERY.—The Brown Hoisting Machinery Co., Cleveland, Ohio. Stiff paper; 8 × 11¼ ins.; pp. 64; illustrated.

In a publication of very high typographical quality, this company illustrates a great number of loaders and unloaders built in various parts of the country by them. These are mostly coal and ore handling tramways or bridges. The first part of the book is devoted to illustrations of the methods of handling such material from the original hand unloading through the early tramways and cableways to the latest developments of the present.

ELECTRICAL INSTRUMENTS. — General Electric Co., Schenectady, N. Y. Bulletins 4744, 4760, 4762. Paper; 8 × 10½ ins.; illustrated.

The first of these bulletins describes a portable rheostat intended to facilitate the periodical calibration of service watt-hour meters. They furnish an artificial known load for the customer's meter. By means of switches, which form a part of the rheostat, loads may be secured varying from ½-ampere to the full rating. These rheostats are of two sizes, one of 15 and the other of 30 amperes capacity.

A line of direct-current switchboard voltmeters and ammeters, constructed upon the D'Arsonval principle, are described in Bulletin 4760. In these instruments a small coil of wire, carrying current, is wound on a light cylindrical frame, pivoted in jeweled bearings and moving in a small annular space between a soft iron core and the pole pieces of the permanent magnet. The bulletin shows in full size the several scales with which the type is put out.

The Thomson polyphase watt-hour meters for measuring energy on any two-phase or three-phase circuit are described in Bulletin 4762. These meters may be used on a circuit carrying a mixed load of lamps, motors or other apparatus and will register accurately irrespective of unbalanced load and variation of power factor. The diagrams for the several connections are given.

ELECTRIC-POWER APPARATUS.—General Electric Co., Schenectady, N. Y. Various Bulletins. Paper; 8 × 10½ ins.; illustrated.

Small motors for sewing machines are described in Bulletin 4727. Two types of motors are described in some detail, showing the design worked out for easy application to any of the standard sewing machines with drop or stationary head.

In Bulletin 4738 is found a brief discussion of the design of a type of polyphase, 60-cycle generators for use in small isolated plants. These generators are of the revolving-armature type for belt drive. They are self-excited and are wound for single, double and three-phase lines. They are all of low voltage varying, as rated, from 120 to 600.

Bulletin 4736 has 20 pages, describing various forms of lightning arresters for alternating and direct-current circuits of both high and low voltage. The arresters described are all built up by the use of multigap, anti-arcing cylinders with graded shunt resistances. The so-called electrolytic arresters are not discussed.

In Bulletin 4740 is described a line-drop compensator for alternating-current circuits. This piece of apparatus is to be applied to switchboards so that the station attendants may read the actual voltage for some point on the distribution system. Previous devices serving this end have been found to be accurate only for the loads for which they were adjusted, introducing considerable error on light or heavy loads and on different power factors. It is claimed that this device can be fully relied upon to serve without appreciable error under all these conditions.

The use of electric motors as drives for grain elevators and flour mills is discussed in Bulletin 4742. Induction motors alone are considered, probably on account of their greater safety in the presence of combustible dust.

In the practice of this company several types of couplings have been found of great service in connecting electrical apparatus together. These couplings are of the "leather-link" and "laced-belt" flexible variety, the "rubber-buffer" and the common flange type.

The various types of induction motors manufactured by this company are described in Bulletin 4751. These are of two general designs, (1) what is known as the "skeleton-frame" and (2) the "mill" type. The skeleton frame, as its name indicates, has most of its important parts open to the air for increased ventilation and for lightness. The mill motors, on account of the adverse conditions under which they must work, have been fully enclosed. The bulletin contains illustrations of the design and construction of the skeleton-frame motor of different sizes, including a line of motors with a vertical shaft. All these motors are made for more than one speed where it is desired and for various frequencies and voltages on two and three-phase circuits.

The mill motors manufactured by this company, for use on both alternating and direct-current circuits, are described in Bulletin 4754. Both types are wholly enclosed in horizontally split steel frames so as to permit easy access to the working parts.

ELECTRIC LIGHTING APPARATUS.—General Electric Co., Schenectady, N. Y. Various Bulletin. Paper; 8 × 10½ ins.; illustrated.

In Bulletin 4718 this company has grouped illustrations and descriptions of all of the apparatus required for a complete series, incandescent, street-lighting system. The equipment includes tungsten lamps with various forms of reflectors and suspension insulators, street brackets, constant-current transformers, switchboards, socket cut-outs, ornamental poles, etc. The bulletin discusses how the benefits of electrical illumination can be economically extended through small villages and suburban districts where the question of expense has before prohibited sufficient lighting.

As the tungsten lamp has developed into a competitor of the older sources, which was thought most useful for the illumination of large areas, additional equipment has been needed for the lamps. One such piece of apparatus is described in Bulletin 4729 and is known as the "economy diffuser." This groups together several tungsten lamps with proper reflectors and diffusing globes so that brilliancy is reduced and the light is thrown where most needed. These diffusers are designed to conform with various ideas of interior decoration, varying from the simple to the extremely elaborate.

In Bulletin 4739 a form of tungsten lamp, which has been given the trade name "Mazda," is described. The bulletin discusses the general gains and advantages to be secured by the use of this comparatively efficient light source in place of the older carbon-filament incandescent lamp which, it seems, is being rapidly supplanted. The characteristics of these new lamps are all described, and there are tables showing the cost of operation, life, the effect of voltage variations on candle power, etc. Considerable space is also given up to certain prismatic reflectors which are desirable adjuncts for the best distribution of the light.

"Luminous-arc" lamps for direct-current multiple circuits are described in Bulletin 4741. These lamps are recommended in this bulletin for lighting interiors where a large volume of white light is desired, such as machine-shops, foundries, storage buildings and places where the slight amount of fumes given off by the lamp is not objectionable. The feature of the lamp, as should be already well known, is the use of an upper electrode, consisting merely of a short copper bar and a lower electrode largely composed of oxides of iron and titanium.

One of these bulletins, No. 4742, is devoted to what is termed the "intensified arc" lamp. This is a carbon-arc lamp which has been designed for general interior illuminating. Two small positive carbons are brought obliquely into contact with each other above a larger negative carbon. This eliminates the necessity of regulating the upper carbons, which feed together as the material out of which they are formed burns away. This construction allows the arc of a given candle power to be compressed into smaller space, permitting a better decorative treatment for certain interiors where this has to be considered. On account of its color value (close to sunlight) it is of particular use in stores.

In Bulletin 4752 is described a system of street lighting with mercury-arc rectifiers (for converting alternating to direct current) and with titanium arcs. The bulletin shows views of the mechanism of the arc lamp, transformers, etc., and gives diagrams of connections for the various apparatus, together with illumination data.

In Bulletin 4753 and 4758 two more types of tungsten lamps ("Mazda") are described. The first of these is a large unit for standard, incandescent, street-lighting service; the second is the smallest type, made for use on electric signs, etc.

In Bulletin 4764 is a line of "compensator lamps" which may be used to advantage where small units of light are employed, or in connection with gasoline-driven generators. They are called "compensator lamps" because they are made in low voltages and are intended to be used on alternating-current circuits of the standard commercial voltages in connection with compensators or transformers for reducing a voltage to that of the lamps. This construction allows a rugged filament to be used, which secure long life where there is apt to be some mechanical vibration and considerable electrical variation.

DRYERS, PRESSES AND C[illegible]KERS.—American Process Co., 68 [illegible]iam St., New York City. Paper; 6 [illegible]ins.; pp. 27; illustrated.

This booklet contains descri[illegible] of rotary dryers, both for external [illegible]ct heat and internal steam heat. Au[illegible]tic continuous screw presses and a [illegible]tinuous cooker, or digester, for freeing [illegible]eparating grease or oil from animal [illegible]er are also described.

SERVICE PIPE CLEANER.—J[illegible]d Staples, West Somerville, Mass. [illegible]r; 6 × 9 ins.; p. 1; illustrated.

The cleaner here described co[illegible] of a cutter fastened to the end of a [illegible] This tool is inserted through the ce[illegible]nd of water and gas service pipes by [illegible] of a stuffing box. A faucet outlet pr[illegible]es for the conveyance of material lo[illegible]d by means of flowing water. Couplin[illegible]nd extension rods are included in the o[illegible]

COUPLINGS AND TEES.—Snell & [illegible]e, Attleboro, Mass. Paper; 5¼ × 5 [illegible]; pp. 3; illustrated.

This small folder is used to sh[illegible] cuts, prices of couplings and tees adapted [illegible]r easy use in trenches where it is inconv[illegible]ent to cut threads on water and gas pipe, [illegible] where pipe is not in alinement, or where [illegible] union cannot be readily used. The circul[illegible] states that connections can also be made under water and that small mains can be adopted without drilling or cutting threads.

OXY-HYDROGEN BLOW PIPES.—The American Oxhydric Co., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 23; illustrated.

Although the so-called "Oxhydric" process described is recommended for both cutting and welding of iron and other metals, the greater portion of the book is devoted to the cutting operation. Apparatus is described for producing straight-line and circular cuts accurately with the oxy-hydrogen torch. Among the illustrations are reproductions of photographs showing a circular cut on a 9-in. nickel chrome steel armor plate. This cut, it is said, was made at the rate of 1 lin. ft. in 2¼ mins. The width of cut with this apparatus is said to be never more than 5/32 of an inch. Tables of gas consumption and time required are given for welding and cutting.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 178.

SEWER SYSTEM.

Bellefontaine, Ohio, Oct. 8, 1910.

Sealed proposals for the construction of Section 1 and Section 2 of the Sanitary Sewer System of Bellefontaine, Ohio, will be received by the Director of Public Service up to 12 o'clock noon of Tuesday, Oct. 25th, 1910.

Each bid must be accompanied by a bidding bond or certified check on a local bank for $1,000.00 for each section bid upon.

Contractors may submit bids on either section or upon both sections.

The successful bidder will be required to furnish a surety bond for fifty per cent. of the contract price.

Plans and specifications may be seen at the office of the City Engineer, Bellefontaine, or at the office of The Riggs & Sherman Co., Toledo, Ohio.

Specifications, instructions and bidding blanks will be furnished on application to the Director of Public Service.

The amount of the work is approximately as follows:

Section 1.

30,701 lin. ft. 8" to 24" sewer.
81 Manholes and drop manholes.
13 Flush tanks.
7 6/10 tons iron pipe.
118 cu. yds. concrete—together with the necessary excavtion and embankment.

Section 2.

46,110 lin. ft. 8" to 18" pipe.
151 Manholes and drop manholes.
15 Flush tanks.
9 6/10 tons iron pipe.
195 cu. yds. concrete—together with the necessary excavation and repaving.

The Director of Public Service reserves the right to reject any or all bids or to waive defects in bids in the interest of the City.

All bids shall be sealed, and endorsed "Proposal, for Building Sewers, Bellefontaine, Ohio," and addressed to the Director of Public Service.

ANSON B. CARTER,
Director of Public Service.